

7000 Series Indicators Instruction Manual



The second secon

T71P T71XW

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1. INTRODUCTION

1.1 Safety Precautions



CAUTION: READ ALL SAFETY WARNINGS BEFORE INSTALLING, MAKING CONNECTIONS, OR SERVICING THIS EQUIPMENT. FAILURE TO COMPLY WITH THESE WARNINGS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE. RETAIN ALL INSTRUCTIONS FOR FUTURE REFERENCE.

- Verify that the input voltage range printed on the data label matches the local AC power to be used.
- Make sure that the power cord does not pose a potential obstacle or tripping hazard.
- Use only approved accessories and peripherals.
- Operate the equipment only under ambient conditions specified in these instructions.
- Disconnect the equipment from the power supply when cleaning.
- Do not operate the equipment in hazardous or unstable environments.
- Do not immerse the equipment in water or other liquids.
- Service should only be performed by authorized personnel.
- The T71XW is supplied with a grounded power cable. Use only with a compatible grounded power outlet.

1.1.1 Relay Option Safety Precautions

This equipment may have an optional AC or DC Relay Option board installed. This option allows external devices to be controlled by the equipment.



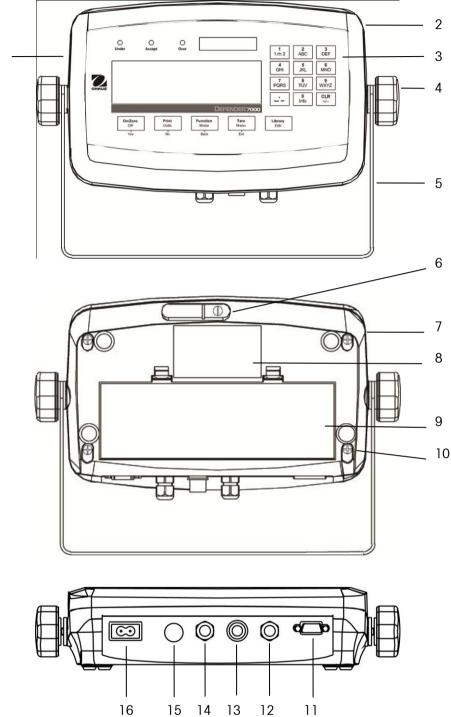
WARNING: ELECTRICAL SHOCK HAZARDS EXIST WITHIN THE HOUSING. THE HOUSING SHOULD ONLY BE OPENED BY AUTHORIZED AND QUALIFIED PERSONNEL. REMOVE ALL POWER CONNECTIONS TO THE UNIT BEFORE OPENING. IF THE UNIT CONTAINS AN OPTIONAL RELAY CONTROL BOARD, ADDITIONAL AC OR DC POWER CONNECTIONS MAY STILL EXIST WITHIN THE HOUSING.

Before making connections to the Relay terminals, remove power from the system. If the system contains an optional rechargeable battery system, be sure to use the **ON/ZERO Off** button to fully turn off the system after removing the AC power plug.

More detailed installation instructions are included with the Relay Option Kit.

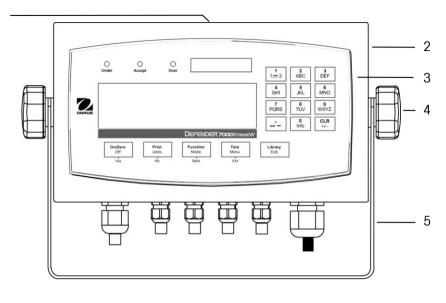
EN-6 7000 Series Indicators

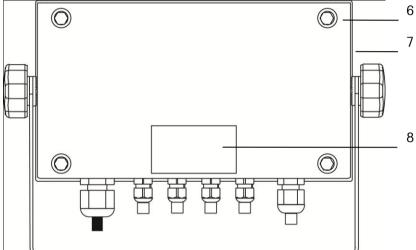
1.2 Overview of Parts and Controls



Item	Description
1	Data label (on side)
2	Front housing
3	Control Panel
4	Adjusting knob (2)
5	Mounting bracket
6	Security screw
7	Rear housing
8	Data label
9	Battery cover
10	Screw (4)
11	RS232 connector
12	Cable gland for Scale 2
	load cell cable or option
	cable
13	Load cell connector for
	Scale 1
14	Cable gland for Scale 1
	load cell cable
15	Hole plug for option
16	Power receptacle

Figure 1-1. T71P Indicator





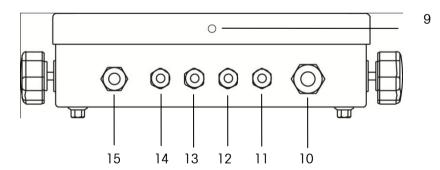
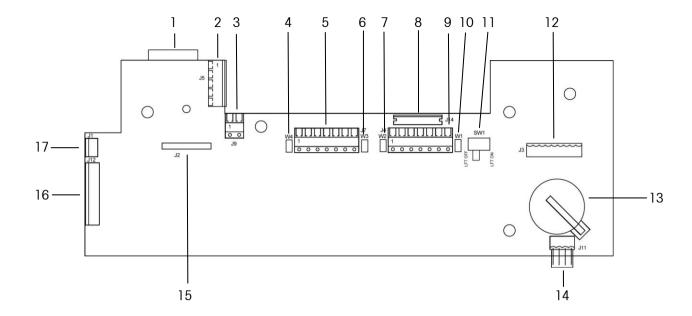


Figure 1-2. T71XW Indicator

Item	Description
1	Data label (on top)
2	Front housing
3	Control Panel
4	Adjusting knob (2)
5	Mounting bracket
6	Bolt (4)
7	Rear housing
8	Data label
9	Location for security
	screw
10	Power cord
11	Cable gland for Scale 1
	load cell cable
12	Cable gland for Scale 2
	load cell cable
13	Cable gland for RS232
	option, RS485/RS422
	option or External Input
	cable
14	Cable gland for RS232
	cable
15	Cable gland for Relay
	option cable

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Item	Description
1	RS232 connector (T71P only)
2	RS232 terminal block J5 (T71XW only)
3	External input terminal block J9
4	Scale 2 sense jumper W4
5	Scale 2 load cell terminal block J7
6	Scale 2 sense jumper W3
7	Scale 1 sense jumper W2
8	Scale 1 load cell connector J14 (T71P only)
9	Scale 1 load cell terminal block J4

Item	Description
10	Scale 1 sense jumper W1
11	Security switch SW1
12	Rechargeable battery option connection J3 (T71P opposite side)
13	Real time clock battery
14	DC power connection
15	Alibi option connection
16	Option connection
17	Battery connection (T71P only)

Figure 1-3. Main PC Board

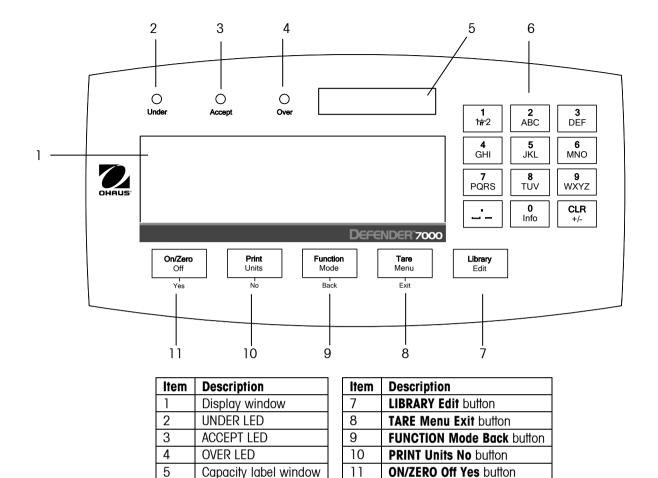
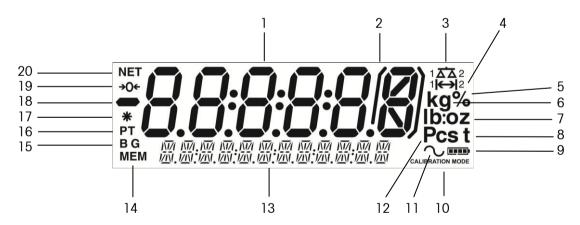


Figure 1-4. Control Panel



Item	Description
1	7-segment display
2	Brackets (not used)
3	Scale symbol
4	Range symbol
5	Kilogram, gram symbols
6	Percent symbol
7	Pound, Ounce, Pound:Ounce symbols
8	Tonne symbol
9	Battery charge symbol
10	Calibration Mode symbol

6

Keypad

Item	Description
11	Dynamic symbol
12	Pieces symbol
13	14-segment display
14	Memory symbol
15	Brutto, Gross symbols
16	Preset Tare, Tare symbols
17	Stable weight symbol
18	Negative symbol
19	Center of Zero symbol
20	NET symbol

Figure 1-5. Display

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1.3 Control Functions

Button	On/Zero Off Yes	Print Units No	Function Mode Back	Tare Menu Exit	Library Edit
Primary Function (Short Press)	ON/ZERO Turn indicator on. Zero the display.	PRINT Send the displayed value to the COM port.	FUNCTION Initiate the function of the current application mode.	Perform a tare operation.	LIBRARY Display the library data.
Secondary Function (Long Press)	Off Turn indicator off.	Units Change the weighing unit.	Mode Change the application mode.	Menu Enter the menu. View the Audit Trail event counters (extended press)	Edit Enable editing the current library record.
Menu Function (Short Press)	Yes Accept the current menu or setting.	No Advance to the next menu or setting. Increment the displayed value.	Back Go back to the previous menu or setting. Decrement the displayed value.	Exit the menu. Abort the calibration in progress.	
Library Function (Short Press)	Yes Accept the current setting.	No Advance to the next library or setting. Increment the displayed value.	Back Go back to the previous library or setting. Decrement the displayed value.	Exit the library.	

Button	1 1 a a 2	ABC DEF 4 S JKL MNO 7 PQRS TUV WXYZ		0 Info	CLR +/-
Primary Function (Short Press)	1 Enter 1 on the display.	2ABC through 9WXYZ Enter alphanumeric values on the display using the multi-tap text entry method.	Enter decimal point, space or dash on the display.	0 Enter 0 on the display.	CLR Clear the last character from the display
Secondary Function (Long Press)	1s2 Change the display between Scale 1 and Scale 2.		,	Info Show the Accumulation statistics on the display.	t/- Change the polarity of the displayed value.

2. INSTALLATION

2.1 Unpacking

Unpack the following items:

- T71P or T71XW indicator
- AC power cord (T71P only)
- Mounting bracket
- Knobs (2)
- Capacity label sheet
- Sealing kit
- Instruction manual CD
- Warranty card

2.2 External Connections

2.2.1 Scale Base with Connector to T71P

Ohaus bases with a circular connector can be attached to the external load cell connector (Figure 1-1, item 13). Refer to Section 2.3.2 for bases without a connector.

To make the connection, plug the base's connector onto the external load cell connector, and then rotate the locking ring clockwise.

2.2.2 Scale Base with Connector to T71XW

To connect an Ohaus base with a circular connector to the T71XW (which does not have an external connector), the Load Cell Cable Adapter Kit p/n 80500736 may be used to make the connection. Only use this attachment method if the system will not be used in a Washdown environment. This cable connects to the terminal block inside the T71XW and has an external connector on the other end.

2.2.3 RS232 Interface Cable to T71P

Connect the optional RS232 cable to the RS232 connector (Figure 1-1, item 11).

Pin	Connection		
1	N/C		
2	TXD		
3	RXD		
4	N/C		
5	Ground		
6	N/C		
7	CTS		
8	RTS		
9	N/C		



Figure 2-1. RS232 Connector

2.2.4 AC Power to T71P

Connect the AC power cord (supplied) to the power receptacle (Figure 1-1, item 16), then connect the AC plug to an electrical outlet.

2.2.5 AC Power to T71XW

Connect the power cord to a properly grounded electrical outlet.

2.2.6 Battery Power to T71P

The T71P indicator can be operated on batteries (not supplied). The indicator will automatically switch to battery power if there is a power failure or the power cord is removed.

Remove the battery cover (Figure 1-1, item 9) and install 6 C-size (LR14) batteries in the orientation shown in the battery compartment. Re-install the battery cover.

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During battery operation, the battery symbol indicates the battery charge level. The indicator will automatically turn off when the batteries are fully discharged.

Level	Charge Remaining
	0 to 5 %
	5 to 25 %
	26 to 50 %
	51 to 75 %
	76 to 100 %

2.2.7 Mounting Bracket Attachment

Position the wall bracket over the threaded holes on each side of the indicator and install the knobs (See Figures 1-1 and 1-2). Adjust the indicator to the desired angle and tighten the knobs.

2.3 Internal Connections

Some connections require the housing to be opened.



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2.3.1 Opening the Housing

T71P

Remove the four Phillips head screws from the rear housing. Remove the front housing being careful not to disturb the internal connections. Once all connections are made, reattach the front housing.

T71XW

Remove the four 8mm hex head bolts from the rear housing. Open the housing by carefully pulling the front housing forward. Once all connections are made, reattach the front housing. Tighten the bolts to 2.5 N m (20-25 in lb) torque to ensure a watertight seal.

2.3.2 Scale Base without Connector to T71P or T71XW

Bases without a circular connector must be attached to one of the internal load cell connectors on the main pc board. Pass the load cell cable through a cable gland (Figure 1-1, item 14 or Figure 1-2, item 11 or 12) and attach it to terminal block J4 (Figure 1-3, item 9) or terminal block J7 (Figure 1-3, item 5). Tighten the cable gland to secure the cable and maintain a tight seal.

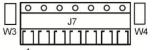
Terminal Block J4 (Scale 1)

Pin	Connection
1	+ Excitation
2	+ Sense
3	+ Signal
4	Ground
5	- Signal
6	– Sense
7	Excitation

.14		0	0	0	0	0	0	0	П
	Ш				J4				Ш
W1 [] [] [] [] [] [] [] []	W2	\Box	[]	$\lceil \rceil$	$\lceil \rceil$	[]	$\lceil \rceil$		W1

Terminal Block J7 (Scale 2)

Pin	Connection
1	+ Excitation
2	+ Sense
3	+ Signal
4	Ground
5	- Signal
6	– Sense
7	Excitation



Jumper connections

When a 4-wire load cell is attached to terminal block J4, jumpers W1 and W2 must be installed.

When a 4-wire load cell is attached to terminal block J7, jumpers W3 and W4 must be installed.

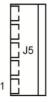
When a 6-wire load cell is attached to terminal block J4, jumpers W1 and W2 must be removed.

When a 6-wire load cell is attached to terminal block J7, jumpers W3 and W4 must be removed.

2.3.3 RS232 Interface Cable to T71XW

Pass the optional RS232 cable through the cable gland (Figure 1-2, item 14) and attach it to the terminal block J5 (Figure 1-3, item 2). Tighten the cable gland to secure the cable and maintain a tight seal.

Pin	Connection
1	RTS
2	TXD
3	RXD
4	CTS
5	Ground

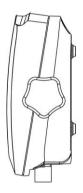


2.3.4 Footswitch to T71P or T71XW

Pass the optional footswitch cable through the cable gland (Figure 1-1, item 12 or Figure 1-2, item 13) and attach it to the terminal block J9 (Figure 1-3, item 3). Tighten the cable gland to secure the cable and maintain a tight seal.

2.3.5 T71P Housing Orientation

The T71P is delivered in the wall mount orientation, with connections exiting below the display. The rear housing may be reversed so the connections exit above the display. This orientation is convenient when the T71P is placed horizontally on a bench. To reverse the rear housing, remove the four Phillips head screws, carefully rotate the housing 180° and re-install the screws.





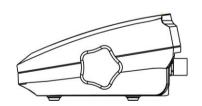


Figure 2-4. Bench Top Configuration

2.3.6 Mounting Bracket

Attach the bracket to a wall or table using fasteners (not supplied) that are appropriate for the type of mounting surface. The bracket will accommodate up to 6 mm (1/4") diameter screws. Locate the mounting holes as shown in Figure 2-5.

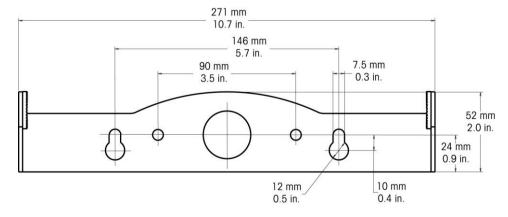


Figure 2-5. Mounting Bracket Dimensions

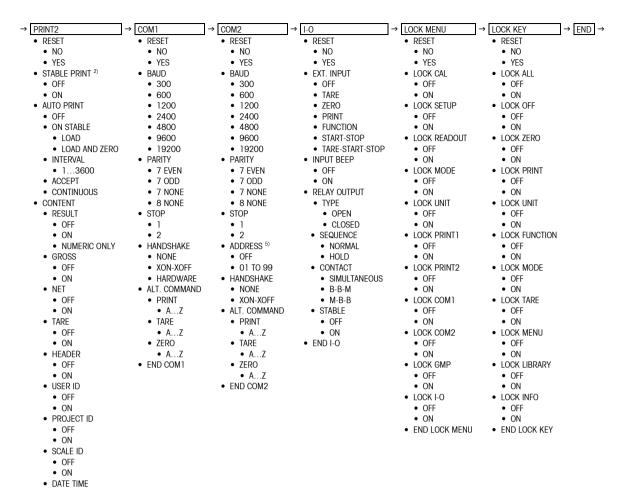
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3. **SETTINGS**

3 1 Menu Structure

.1 Men	u Structure					
CALIBRATION	→ SETUP	→ READOUT	→ MODE	→ UNIT	→ GMP	→ PRINT1
 ZERO1 ¹⁾ ZERO2 ¹⁾ 	RESETNO	RESETNO	RESET NO	RESETNO	RESETNO	RESET NO
SPAN1 1)	• YES	• YES	• YES	• YES	• YES	• YES
SPAN2 1)	 DUAL SCALE ²⁾ 	 LANGUAGE 	 WEIGH ²⁾ 	 KILOGRAM²⁾ 	 DATE 	 STABLE PRINT ²⁾
3 PT LINEAR1 1 3 PT LINEAR2 1		ENGLISH CDANIGH	• OFF	• OFF	DATE TYPE MDV	• OFF
5 PT LINEAR2		SPANISHFRENCH	• ON • COUNT 2)	 ON POUND ²⁾ 	MDYDMY	ONAUTO PRINT
5 PT LINEAR2 1		GERMAN	• OFF	• OFF	• YMD	• OFF
CAL TEST1	• DUAL	• ITALIAN	• ON	• ON	DATE SET	ON STABLE
CAL TEST2 GEO 1)	 RANGE2 ²⁾ SINGLE 	 STABLE RANGE ²⁾ 0.5d 	PC OPTIMIZEOFF	 GRAM ²⁾ OFF 	• XX.XX.XX • TIME	LOADLOAD AND ZERO
END CAL	• DUAL	• 1d	• OFF	• ON	TIME TYPE	INTERVAL
	CAPACITY 1 2)	• 2d	PERCENT ²⁾	OUNCE 2)	• 24 HR	• 13600
	• 1999999	• 3d	• OFF	• OFF	• 12 HR	ACCEPT CONTINUOUS
	 CAPACITY2 ²⁾ 1999999 	• 5d • FILTER	ON DYNAMIC ²⁾	ON POUND OUNCE 2)	TIME SETXX:XX	CONTINUOUSCONTENT
	GRADUATION 1 2)	• LOW	• OFF	• OFF	USER ID	RESULT
	• 0.0001100	MEDIUM	MANUAL	• ON	XXXXXX	• OFF
	 GRADUATION2 ²⁾ 0.0001100 	 HI AUTO ZERO ²⁾ 	LEVELSET1SET60	 TONNE ²⁾ OFF 	PROJECT IDXXXXXX	ONNUMERIC ONLY
	POWER ON UNIT ²⁾	• OFF	• SEMI	• ON	SCALE ID	GROSS
	 AUTO 	• 0.5d	 LEVEL 	 CUSTOM ²⁾ 	 XXXXXX 	• OFF
	KILOGRAM	• 1d	• SET1SET60	• OFF	 END GMP 	• ON
	POUNDGRAM	3dBACKLIGHT	AUTOLEVEL	ONFACTOR		NETOFF
	OUNCE	• OFF	• SET1SET60	• 0.00001		• ON
	POUND OUNCE	• ON	CHECK WEIGH ²⁾	9.99999		• TARE
	TONNECUSTOM	AUTO1 MINUTE	OFFWEIGH	EXPONENT0		OFF ON
	ZERO RANGE ²⁾	2 MINUTES	• PCS	• 1		HEADER
	• 2%	 5 MINUTES 	 END MODE 	• 2		• OFF
	• 100%	AUTO OFF		• 3		• ON
	 AUTO TARE ²⁾ OFF 	OFF1 MINUTE		• -2 • -1		USER IDOFF
	• ON	• 2 MINUTES		• LSD		• ON
	ACCEPT	5 MINUTES		• 0.00001		PROJECT ID
	OFF0.5 SECOND	GROSS INDICATOROFF		1000 • END UNIT		OFFON
	• 1 SECOND	• GROSS		C LIND OINT		SCALE ID
	 2 SECONDS 	 BRUTTO 				• OFF
	 5 SECONDS ACCUMULATION ²⁾ 	 END READOUT 				ONDATE TIME
	OFF					OFF
	 MANUAL 					• ON
	AUTO PETAIN ZERO 2)					SCALE NO
	 RETAIN ZERO ²⁾ OFF 					OFFON
	• ON					DIFFERENCE
	LEGAL FOR TRADE					• OFF
	OFFON					ONINFORMATION
	BEEPER VOLUME					OFF
	 OFF 					• ON
	• LOW • HI					MODEOFF
	BEEPER SIGNAL					• OFF • ON
	 OFF 					 NAME
	ACCEPT UNDED					OFF ON
	UNDEROVER					ALIBI ID 3)
	UNDER-OVER					• OFF
	KEY BEEP					• ON
	OFFON					LIBRARY IDOFF
	• LIBRARY					• ON
	• OFF					LIBRARY NAME
	• ON					OFF ON
	ALIBIOFF					ON LAYOUT
	• ON					 FORMAT
	 END SETUP 					SINGLE
						MULTI FEED
						NONE
						• LINE
Notes:						• 4 LINE
	when I ECAL EOD T	DADE is ON				FORMLIST
•	when LEGAL FOR T		MDE :- ON			MENU
	at current setting w					ALIBI ³⁾
	only with Alibi optic		١.			LIBRARY 4) FND DDINT!
4) Visible (only with Library op	otion ON.				END PRINT1
-	, , , ,					

- 3) Visible only with Alibi option installed and ON.
- 4) Visible only with Library option ON.



Notes:

- 1) Hidden when LEGAL FOR TRADE is ON.
- 2) Locked at current setting when LEGAL FOR TRADE is ON.
- 3) Visible only with Alibi option installed and ON.
- 4) Visible only with Library option ON.
- 5) Visible only with RS485/RS422 option installed.

- FORM
- NONE • LINE

OFF ON SCALE NO OFF ON DIFFERENCE • OFF • ON INFORMATION OFF ON MODE OFF ON NAME ON ALIBI ID ³⁾ OFF ON LIBRARY ID OFF • ON LIBRARY NAME • ON LAYOUT FORMAT SINGLE • MULTI • FEED

- 4 LINE
- LIST
- MENU ALIBL³⁾
- LIBRARY ⁴⁾
- END PRINT2

EN-16 7000 Series Indicators

3.2 Menu Navigation

The following method is used to navigate the menu and change the settings.

Enter the menu by pressing and holding Menu until MENU is displayed.

- Press No to move to the next menu or press Back to move to the previous menu.
- Press **Yes** to enter the displayed menu.

After entering the desired menu,

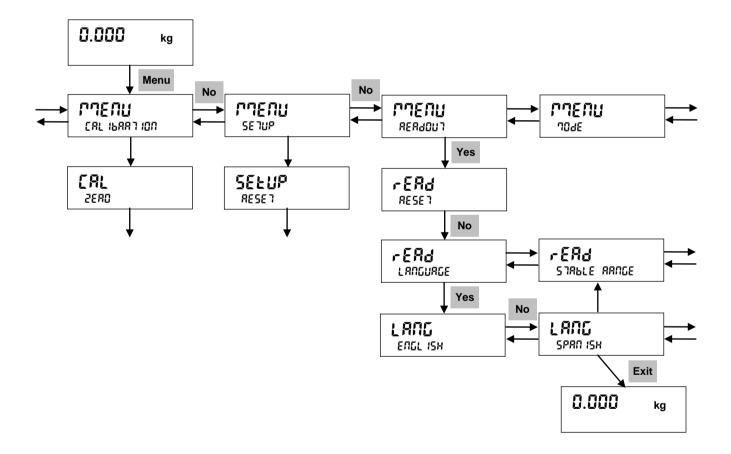
- Press No to move to the next menu item or press Back to move to the previous menu item.
- Press **Yes** to enter the displayed menu item.

After entering the desired menu item,

- Press No to move to the next setting or press Back to move to the previous setting.
 For menu items with numeric or alphanumeric settings, use the keypad to enter the desired value.
- Press **Yes** to accept the displayed setting.

Press **Exit** to immediately exit the menu at any time.

The example below shows how to change the language to SPANISH.



3.3 Calibration Menu

When CALIBRATION is displayed, press **Yes** to accept the Calibration menu.

Press **No** to advance to the desired menu item.

CAL IBAAT ION

NOTES: Before entering the Zero, Span, 3 Point Linearity or 5 Point Linearity menu items, remove all load from the scale.

If DUAL SCALE is set to OFF, the ZERO, SPAN, 3PTLIN, 5PTLIN menu items are displayed. If DUAL SCALE is set to ON, the ZERO1, ZERO2, SPAN1, SPAN2, 3PTLIN1, 3PTLIN2, 5PTLIN1, 5PTLIN2 menu items are displayed, where the number represents the scale number.

3.3.1 Zero Calibration

Use this calibration method to adjust the zero calibration point, without affecting the span or linearity calibration.

With no load on the scale, press **Yes** to set the new zero calibration point.

The display shows --C--, then DONE and returns to the current application mode.

28L 2880

26-0

2ErO 16

2ЕгО в

0.000 в

3.3.2 Span Calibration

Use this calibration method to adjust the zero calibration point and span calibration point, without affecting the linearity calibration.

With no load on the scale, press **Yes**. The display shows the current span calibration point and calibration unit of measure.

NOTES: To change the span calibration point, press **No** and enter the value using the keypad. Then press **Yes**.

Place the specified calibration weight on the scale and press **Yes**.

The display shows --C--, followed by the zero calibration point.

To change the calibration unit of measure, press No to alternate between kg and lb.

CAL SPAN

5PAN kg

SPAN kg

5*PAN* ₀ ѕ

5PAN 16

With no load on the scale, press Yes.

The display shows --C--, then DONE and returns to the current application mode.

SPAN IB

5PAN 16

SPAN IB

0.000 в

3.3.3 3 Point Linearity Calibration

Use this calibration method to adjust the zero calibration point, 1/2 and full load calibration points.

[AL 3 P7 L IDEAA

With no load on the scale, press **Yes**. The display shows the current full load calibration point and calibration unit of measure.

∃L I∏ kg

NOTES: To change the full load calibration point, press **No** and enter the value using the keypad. Then press **Yes**.

3L III kg

To change the calibration unit of measure, press No to alternate between kg and lb.

3L 111 116

Place the specified full load calibration weight on the scale and press **Yes**. The display shows --C--, followed by the 1/2 load calibration point.

3L M 16

3L 111 lb

Place the specified 1/2 load calibration weight on the scale and press **Yes**. The display shows --C--, followed by the zero calibration point.

3L III 16

3L 1Л 16

With no load on the scale, press **Yes**. The display shows --C--, then DONE and returns to the current application mode.

3L III 16

3L IN 16

0.000 в

3.3.4 5 Point Linearity Calibration

Use this calibration method to adjust the zero calibration point, 1/4, 1/2, 3/4 and full load calibration points

With no load on the scale, press **Yes**. The display shows the current full load calibration point and calibration unit of measure.

NOTES: To change the full load calibration point, press **No** and enter the value using the keypad. Then press **Yes**.

To change the calibration unit of measure, press No to alternate between kg and lb.

S P1 L INEAR

SL IN kg

5L 111 kg

SL III III

5L III Ib

5L III 16

5L III 16

Place the specified full load calibration weight on the scale and press **Yes**.

The display shows --C--, followed by the 3/4 load calibration point.

Place the specified 3/4 load calibration weight on the scale and press **Yes**. The display shows --C--, followed by the 1/2 load calibration point.

Place the specified 1/2 load calibration weight on the scale and press **Yes**. The display shows --C--, followed by the 1/4 load calibration point.

5L III 16

5L /Л в

5L III в

Place the specified 1/4 load calibration weight on the scale and press **Yes**. The display shows --C--, followed by the zero calibration point.

5L M 16

SL III III III

With no load on the scale, press **Yes**. The display shows --C--, then DONE and returns to the current application mode.

5L III 16

SL IN IB

0.000 в

3.3.5 Calibration Test

Calibration Test is used to compare a known calibration weight against the stored span calibration data.

CAL 1857

With no load on the scale, press Yes. The display shows the zero load calibration point.

EESE kg

With no load on the scale, press **Yes**. The display shows --T--, followed by the full load calibration point.

ŁE5Ł kg --7--

£**E5**£ kg 10

Place the specified full load calibration weight on the scale and press **Yes**. The display shows --T--, followed by difference between the calibration weight and the stored calibration data.

ŁE5Ł kg

0.001 kg JIFFERENCE

After 5 seconds, the display returns to the current application mode.

10.000 kg

EN-20 7000 Series Indicators

3.3.6 Geographical Adjustment Factor

Geographical Adjustment Factor (GEO) is used to adjust the calibration based on the current location. Refer to Section 6, Table 6-1 and set the GEO factor that corresponds to your location.

CEO

Settings from 1 to 31 are available.

Press the No or Back button to change the value. Press Yes to accept the value.

GEO

NOTE: Only an authorized manufacturer's representative or certified verification personnel may make these changes. Changing the geographical setting alters the calibration values.

3.3.7 End Calibration

Press **Yes** to advance to the next menu or **No** to return to the top of the current menu.

ENJ CAL

3.4 Setup Menu

When the indicator is used for the first time, enter this menu to set the Range, Capacity and Graduation values. If the indicator comes as part of a bench scale, these values were already set in the factory.

raenu serup

NOTE: If two scales will be operated, set DUAL SCALE to ON and set the Range, Capacity and Graduation values for both scales. The Range 1, Capacity 1 and Graduation 1 values are set for Scale 1, which is connected to the circular connector (Figure 1-1, Item 8) or terminal block J4 (Figure 1-3, Item 9) on the main pc board. The Range 2, Capacity 2, and Graduation 2 values are set for Scale 2, which is connected to the terminal block J7 (Figure 1-3, Item 5) on the main pc board. All other Setup Menu settings apply to both scales.

3.4.1 Reset

Reset the Setup menu to the factory defaults. Factory default settings are shown in bold.

NO = not reset YES = reset SELUP RESET

rE5EŁ

YE5

3.4.2 Dual Scale

Set the status of the second scale input (Scale 2).

OFF = Scale 2 is not active.
ON = Scale 2 is active.

SELUP JUBL SCALE

d.SEALE

OFF ON

If DUAL SCALE is set to ON, the RANGE1, RANGE2, CAPACITY1, CAPACITY2, GRADUATION1 and GRADUATION2 menu items are displayed, where the number represents the scale number.

NOTES: If DUAL SCALE is set to OFF, the RANGE, CAPACITY and GRADUATION menu items are

3.4.3 Ranae1

Set the number of weighing ranges for Scale 1.

SINGLE = one weighing range from zero to capacity.

DUAL = two weighing ranges. The fine range (1r) is from zero to half

capacity. The coarse range (r2) is from half capacity to full capacity.

NOTE: If DUAL SCALE is set to OFF, RANGE is displayed instead of RANGE1.

SEŁUP ARNGE I

rANGE 1

dUAL

3.4.4 Ranae2

Set the number of weighing ranges for Scale 2.

= one weighing range from zero to capacity. **SINGLE**

DUAL = two weighing ranges.

The fine range (1r) is from zero to half capacity.

The coarse range (r2) is from half capacity to full capacity.

SELUP AANGE 2

-80662 S INGLE

dUAL

3.4.5 Capacity 1

Set the capacity of Scale 1 using the numeric keypad.

Settings from 1 to 999999 are available.

NOTE: if DUAL SCALE is set to OFF, CAPACITY is displayed instead of CAPACITY1.

NOTE: If DUAL was selected as the Range 1 setting, the Capacity 1 setting defines the capacity of the coarse range. The capacity of the fine range is automatically defined as half of the Capacity 1 setting. For example, if the Capacity 1 setting is 15, the capacity of the fine range is 7.5 and the capacity of the coarse range is 15.

After the capacity is set, select the primary unit.

kg = the primary unit is kilograms. lh = the primary unit is pounds.

SEŁUP CAPAC 179 I

CAP : kq 1 999999

[AP: lb 999999

3.4.6 Capacity2

Set the capacity of Scale 2 using the numeric keypad.

Settings from 1 to 999999 are available.

NOTE: If DUAL was selected as the Range2 setting, the Capacity2 setting defines the capacity of the coarse range. The capacity of the fine range is automatically defined as half of the Capacity2 setting.

After the capacity is set, select the primary unit.

KILOGRAM = the primary unit is kilograms. **POUND** = the primary unit is pounds.

SEEUP CAPAC 1792

[892 kg 999999

[892 lb 999999

3.4.7 Graduation 1

Set the readability of Scale 1.

Settings of 0.0001, 0.0002, 0.0005, **0.001**, 0.002, 0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, and 100 are available.

NOTE: If DUAL SCALE is set to OFF, GRADUATION is displayed instead of GRADUATION 1.

NOTE: Graduation 1 setting selections are dependent on the Capacity 1 setting. Selections are limited to values that will provide a scale resolution between 1:1000 and 1:50000.

NOTE: If DUAL was selected as the Range1 setting, the Graduation1 setting defines the fine range graduation. The coarse range graduation is automatically defined as one step greater than the Graduation 1 setting. For example, if Graduation 1 is set to 0.001, the coarse range graduation is defined as 0.002.

SEEUP

CANADAR TION I

GrAd 1 kg 0.000 (100

EN-22 7000 Series Indicators

3.4.8 Graduation2

Set the readability of Scale 2.

Settings of 0.0001, 0.0002, 0.0005, 0.001, 0.002, 0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, and 100 are available.

NOTE: Graduation2 setting selections are dependent on the Capacity2 setting. Selections are limited to values that will provide a scale resolution between 1:1000 and 1:50000.

NOTE: If DUAL was selected as the Range1 setting, the Graduation2 setting defines the fine range graduation. The coarse range graduation is automatically defined as one step greater than the Graduation2 setting.

3.4.9 Power Unit

Set the unit of measure displayed at startup.

AUTO = last unit in use when the indicator was turned off.

KILOGRAM = kilograms
GRAM = grams
POUND = pounds
OUNCE = ounces
POUND OUNCE = pound ounces
TONNE = tonnes
CUSTOM = custom unit

3.4.10 Zero Range

Set the percentage of scale capacity that may be zeroed.

2% = zero up to 2 percent of capacity. 100% = zero up to 100 percent of capacity.

3.4.11 Auto Tare

Set the automatic tare functionality.

OFF = automatic tare is disabled.

ON = the first stable gross weight is tared.

ACCEPT = in Check weighing mode, stable gross loads within the accept limits

are tared.

When ACCEPT is selected, set the delay time.

OFF = automatic tare takes affect as soon as the weight is stable.
 0.5 = automatic tare takes affect after the weight is stable for 0.5 second.
 1 = automatic tare takes affect after the weight is stable for 1 second.
 2 = automatic tare takes affect after the weight is stable for 2 seconds.
 5 = automatic tare takes affect after the weight is stable for 5 seconds.

SEEUP GRAJURTIONS

GrAd2 kg 0.000≀ 100

SELUP POJER UNIT

PLJF.UN RUTO FILOGRAN GRAN POUNA OUNCE POUNA-OUNCE TONNE CUSTON

SELUP SERO RANGE

2ErO %

SELUP AUTO TARE

A.E.A.E OFF ON ACCEPT

A.ŁArE

dEL RYOFF

O.S

1

2

3.4.12 Accumulate

Set the accumulate functionality.

OFF = accumulation is disabled.

MANUAL = the displayed value is manually added to the total by pressing the

FUNCTION button.

AUTO = the displayed value is automatically added to the total when the

display becomes stable.

3.4.13 Retain Zero

Set the Retain Zero functionality.

OFF = Retain Zero is disabled.

ON = when power is turned on, the displayed weight is based on the last

stored zero (**Zero** button or "Z" command).

3.4.14 Legal For Trade

Set the legal for trade status.

OFF = standard operation.

ON = operation complies with weights and measures regulations.

NOTE: When Legal for Trade is set to ON, the Menu settings are affected as follows:

• Calibration functions are hidden except for Calibration Test.

• Capacity is read-only.

- Range, Graduation, Power On unit, Auto-Tare, Retain Zero, Gross Indication, Print Output, Unit and Mode settings are locked at their current settings.
- Zero Range is locked at 2%.
- Stable Range is locked at 1d.
- Auto-Zero Tracking is set to 0.5d.
- Continuous Print is disabled.
- IP and CP RS232 commands are disabled.

3.4.15 Beep Volume

Set the beeper volume.

OFF = the beeper is disabled. **LOW** = the beeper volume is soft.

HIGH = the beeper volume is loud.

3.4.16 Beep Signal

Set how the beeper responds in Check Weighing mode.

OFF = the beeper is disabled.

ACCEPT = the beeper sounds when the weight is within the accept range.

UNDER = the beeper sounds when the weight is below the Under setting.

UNDER-OVER = the beeper sounds when the weight is above the Over setting.

= the beeper sounds when the weight is below the Under setting or

above the Over setting.

SELUP ACCUPULATE

ACCUPA

OFF

าคกบคน คนาก

SEŁUP

AE TA IN ZEAD

LEFU IU

OFF

OΠ

SEŁUP

LEGAL JAAJE

LFŁ OFF

OΩ

SELUP

PEEL NOTAUE

6P.UOL

LOJ

H ICH

SELUP

BEEP SIGNAL

68.5 16 OFF

ACCEPI

UNAEA

OUER

NU9EN-ONEN

3.4.17 Key Beep

Set whether the beeper sounds when a button is pressed.

OFF = no sound ON = sound **562UP** +64 666P

FEY.6P

on

3.4.18 Library

Set whether the library memory is enabled.

OFF = data cannot be stored in the library memory.

ON = data can be stored in the library memory.

SELUP

L 16 OFF

3.4.19 Alibi

Set whether the alibi memory is enabled.

OFF = alibi records are not stored in the alibi memory.

ON = alibi records are stored in the alibi memory.

memory.

AL 16 1

NOTE: The Alibi menu item is only displayed if the Alibi Memory Option is installed.

AL 16 1

SEEUP

AL 16 I

OΠ

3.4.20 End Setup

Advance to the next menu or return to the top of the current menu.

SELUP End Senup

3.5 Readout Menu

Enter this menu to customize display functionality.

351 Reset

Reset the Readout menu to the factory defaults. Factory default settings are shown in bold.

NO = not reset YES = reset

UNBAPA REAGOUT

r**EAd** RESET

r**ESEŁ** no yes

3.5.2 Language

Set the language for menus and displayed messages.

ENGLISH= EnglishSPANISH= SpanishFRENCH= FrenchGERMAN= GermanITALIAN= Italian

r**EAd** LANGUAGE

LANG
ENGLISH
SPANISH
FRENCH
GERMAN

3.5.3 Stable Range

Set the amount the reading can vary while the stability symbol remains on.

0.5 d = 0.5 graduations
 1 d = 1 graduation
 2 d = 2 graduations
 3 d = 3 graduations
 5 d = 5 graduations

NOTE: When LEGAL FOR TRADE is set to ON, the setting is forced to 1 d. The setting is locked when the Security Switch is set to the ON position.

3.5.4 Filter

Set the amount of signal filtering.

LOW = faster stabilization time with less stability. **MEDIUM** = normal stabilization time with normal stability.

HIGH = slower stabilization time with more stability.

3.5.5 Auto Zero Tracking

Set the automatic zero tracking functionality.

OFF = disabled.

0.5 D = the display maintains zero until a drift of 0.5 graduation per second

is exceeded.

1 D = the display maintains zero until a drift of 1 graduation per second

is exceeded.

3 D = the display maintains zero until a drift of 3 graduations per second

is exceeded.

NOTE: When Legal for Trade is set to ON, the setting is forced to 0.5 D. The 1 D and 3 D settings are still available for applications that permit these settings. The setting is locked at the current setting when the security switch is set to the ON position.

3.5.6 Backlight

Set the display backlight functionality.

OFF = the backlight is always off.
ON = the backlight is always on.

AUTO = the backlight turns on when a button is pressed, or the displayed

weight changes and it turns off after the specified time period.

When AUTO is selected, set the time period.

1 MINUTE = the backlight turns off after 1 minute.
2 MINUTES = the backlight turns off after 2 minutes.
5 MINUTES = the backlight turns off after 5 minutes.

r**EAd** STABLE AANGE

SEABLE 0.5 a	
1 d	
2 4	
3 d	
5 d	

r**EAd** FILTEA

FILEER LOJ 1EJ 101 H IGH

r**EAd** R27

R2L OFF 0.5 d 1 d 3 d

r**EAd** 68646 1647

L IGHE OFF ON RUTO

3.5.7 **Auto Off Timer**

Set the automatic shut off functionality.

OFF = disabled.

1 MINUTE = the indicator turns off after 1 minute of inactivity. 2 MINUTES = the indicator turns off after 2 minutes of inactivity. = the indicator turns off after 5 minutes of inactivity. 5 MINUTES

r E Ad AUTO OFF

A.OFF OFF

ברעתו רי ו

2 7 100765

ร ๆ เกมาธร

3.5.8 **Gross Indicator**

Set the symbol displayed for gross weights.

OFF = no symbol is displayed. **GROSS** = the G symbol is displayed. **BRUTTO** = the B symbol is displayed. rEAd CROSS INA

6-055

OFF g GAOSS

в БАИТТО

3.5.9 **End Readout**

Advance to the next menu or return to the top of the current menu.

rEAd ENA RERADUT

3.6 Mode Menu

Enter this menu to activate the desired application modes.

րոբուլ

7046

MODE AESE 7

r656£ no

YE5

Reset the Mode menu to the factory defaults. Factory default settings are shown in bold.

NO = not reset YES = reset

NOTE: When LEGAL FOR TRADE is set to ON, the Mode menu cannot be reset.

3.6.2 **Weighing Mode**

Set the status.

OFF = disabled ON = enabled

NOOSE

JE IGH ING

LUE ICH OFF

3.6.3 **Parts Counting Mode**

Set the status.

OFF = disabled ON = enabled

NUDAE

במעחם וחם

OFF

OΠ

3.6.4 Parts Counting Optimization

When the Parts Counting mode is turned ON, Parts Counting Optimization can be used to automatically adjust the average piece weight (APW). Each time a quantity greater than 1x or less then 3x the previous quantity is placed on the scale, the APW is adjusted.

OFF = disabled ON = enabled [000]

פר פרטף פרטף

PE.OPŁ

nn

3.6.5 Percent Weighing Mode

Set the status.

OFF = disabled ON = enabled

PEACENT

PE-[NE

ממ ממ

3.6.6 Dynamic Weighing Mode

Set the status.

OFF = disabled

MANUAL = averaging and resetting are manually initiated by pressing

FUNCTION.

SEMI AUTO = averaging is automatically initiated when the display exceeds

5 graduations; resetting is manually initiated by pressing

FUNCTION.

AUTO = averaging is automatically initiated when the display exceeds

5 graduations; resetting is automatically initiated when the display

returns to within 5 graduations of zero.

35000 aynan ic

92UBLJ

OFF

TAUUAL

SET I AUTO

AUTO

If MANUAL, SEMI AUTO, or AUTO is selected, the current averaging time is displayed.

Set the averaging time.

Settings of 0 to 60 seconds are available.

LEUEL

60

NOTE: Select 0 seconds to enable the **Display Hold** function. In this case, the first stable weight will be held on the display.

3.6.7 Check Weighing Mode

Set the status.

OFF = disabled

WEIGH = enabled for checking items by weight. PCS = enabled for checking items by count. CHECHUE IGH

[HE[}

JE IGH

PES

770dE End 10dE

3.6.8 End Mode

Advance to the next menu or return to the top of the current menu.

3.7 Unit Menu

Enter this menu to activate the desired units of measure.

NOTE: Due to national laws, the indicator may not include some of the units of measure listed.

מת**פרת** נותנ

3.7.1 Reset

Reset the Unit menu to the factory defaults. Factory default settings are shown in bold.

NO = not reset YES = reset

NOTE: If LEGAL FOR TRADE is set to ON, the Unit menu is not reset.

HESE T

r**ESE**Ł

YE5

3.7.2 Kilogram Unit

Set the status.

OFF = disabled ON = enabled



UN 1E kg OFF ON

3.7.3 Pound Unit

Set the status.

OFF = disabled ON = enabled

MU 1F IP

UN IL IB OFF ON

3.7.4 Gram Unit

Set the status.

OFF = disabled ON = enabled

₩ 6887

UN IL g OFF ON

3.7.5 Ounce Unit

Set the status.

OFF = disabled ON = enabled

NOTE: Ounce Unit is not available when Range is set to DUAL.

UN IL oz DUNCE

UN 1E oz OFF ON

3.7.6 Pound Ounce Unit

Set the status.

OFF = disabled ON = enabled

UN IE Ib:oz POUNA-OUNCE

OFF Ib:oz

NOTE: Pound Ounce Unit is not available when Range is set to DUAL or when Graduation setting is greater than 0.01 kilograms or 0.02 pounds.

3.7.7 Tonne Unit

Set the status.

OFF = disabled ON = enabled

NOTE: Tonne Unit is not available when Range is set to DUAL or when Graduation setting is less than 0.01 kilograms or 0.02 pounds.

U∏ 1} 1000€

UN IL	t
on	

3.7.8 Custom Unit

Use Custom Unit to display weight in an alternative unit of measure. The custom unit is defined using a conversion factor, where the conversion factor is the number of custom units per kilogram expressed in scientific notation (Factor x 10^Exponent).

For example: To display weight in troy ounces (32.15075 troy ounces per kilogram) enter a Factor of 3.21508 and an Exponent of 1.

Set the status.

OFF = disabled ON = enabled

NOTE: Custom Unit is not available when Range is set to DUAL.

When Custom Unit is set to ON, the Factor, Exponent and Least Significant Digit must be set.

Factor

Set the conversion factor using the numeric keypad.

Settings of 0.00001 to 9.99999 are available. The default setting is **1.00000**.

በህ 1F	С
רסרצעם	

₩ ∏ 1 E OFF	С
00	

UN IL c

FACEOr 0.0000 (
9.99999

Exponent

Set the factor multiplier.

e multiply the Factor by 1 $(1x10^0)$ multiply the Factor by 10 $(1x10^1)$

1 = multiply the Factor by $10 (1x10^1)$ 2 = multiply the Factor by $100 (1x10^2)$

3 = multiply the Factor by $1000 (1x10^3)$

-2 = divide the Factor by 100 (1x10⁻²)

-1 = divide the Factor by 10 (1x10⁻¹)

UN 1E c

E	
1	
2	
3	
-2	
- 1	

Least Significant Digit

Set the graduation.

Settings of 0.00001, 0.00002, 0.00005, 0.0001, 0.0002, 0.0005, **0.001**, 0.002, 0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 100, 200, 500 and 1000 are available.

NOTE: Least Significant Digit setting selections are dependent on the Factor and Exponent settings. Selections are limited to values that will provide a scale resolution between 1:1000 and 1:50000.

LIM IE c

L S d 0.0000 t	
1000	

3.7.9 End Unit

Advance to the next menu or return to the top of the current menu.

EU9 UU IJ

3.8 **GMP Menu**

Enter this menu to set the Good Manufacturina Practices data.

LUEUM GNP

3.8.1 Reset

Reset the GMP menu to the factory defaults. Factory default settings are shown in bold.

NO = not reset YES = reset

ըրդթ AESE 7

rE5EŁ nο

YES

Date 3.8.2

Enter this menu to set the date.

ըրդթ **BERB**

dAEE

BASE TABE

789

day

978

Date Type

Set the date format.

= Month.Day.Year **MDY** DMY = Day.Month.Year YMD = Year.Month.Day

> dALE **JATE SET**

0 1.00.00 **JATE SET**

Date Set

Set the date.

00 to 99 = year position 01 to 12 = month position 01 to 31 = day position

ըրդթ

7 INE

Time Type

3.8.3

Set the time format.

Time

Enter this menu to set the time.

24 HOUR = 24 hour format 12 HOUR = 12 hour format FILLE TIME TYPE

Ł.ŁYPE AUOH PS

12 HOUR

Time Set

Set the time.

F NUJE TIME SET

00:00

7 ME 587

00:00 A TIME SET

24 hour format:

00 to 23 = hour position 00 to 59 = minute position

12 hour format:

01 to 12 = hour position 00 to 59 = minute position A or P = am or pm position

3.8.4 User ID

Set the user identification.

Alphanumeric settings up to 12 characters are available. The default setting is 000000.

նրդթ

USER 18

USEr. 1d

нинининини

3.8.5 Project ID

Set the project identification.

Alphanumeric settings up to 12 characters are available. The default setting is **000000**.

ըրդթ

PROJECT 18

PrOJ. 18

нинининини

3.8.6 Scale ID

Set the scale identification.

Alphanumeric settings up to 12 characters are available. The default setting is **000000**.

ըրդթ

SCALE 18

SEAL. 18

нинининини

3.8.7 End GMP

Advance to the next menu or return to the top of the current menu.

Ըսմե

ena one

3.9 Print1, Print2 Menus

Enter this menu to set printing parameters.

NOTE: The Print2 menu is only available if the optional RS232 or RS485/RS422 interface is installed.

PRINT!

PR INTS

3.9.1 Reset

Reset the Print menu to the factory defaults. Factory default settings are shown in bold.

NO = not reset YES = reset

NOTE: If LEGAL FOR TRADE is set to ON, the Stable setting is not reset.

Pr INE I

r858£

YE 5

3.9.2 Print Stable Data Only

Set the printing criteria.

OFF = values are printed immediately, regardless of stability.
 ON = values are printed only when the stability criteria are met.

Pr INE 1 STABLE PAINT

SEABLE OFF

on

3.9.3 Auto Print

EN-32

Set the automatic printing functionality.

OFF = disabled

ON STABLE = printing occurs each time the stability criteria are met.

INTERVAL = printing occurs at the defined time interval.

ACCEPT = in Checkweigh mode, printing occurs each time the display is

within the accept range and the stability criteria are met.

CONTINUOUS = printing occurs continuously.

Pr 106 1 8070 PR 107

A.Pr INŁ

OFF

ON STABLE

INTERUAL

ACCEP7

כטסטו וחטסטק

When ON STABLE is selected, set the conditions for printing.

LOAD = Prints when the displayed load is stable.

LOAD ZERO = Prints when the displayed load or zero reading is stable.

00.5EAP

LOAG

LOA9 SEAO

When INTERVAL is selected, set the time interval using the numeric keypad.

Settings of 1 to 3600 seconds are available.

MEEr

1

3600

3.9.4 Print Content Sub-menu

Enter this sub-menu to define the content of the printed data.

ResultSet the status.

OFF = the displayed reading is not printed.

ON = the displayed reading is printed.

NUMERIC ONLY = only the numeric portion of the displayed reading is printed.

12.000 kg (ON)

12.000 (NUMERIC ONLY)

Pr 101 1

EONENE RESULT

rESULE

OFF

OΠ

UNUER IC OUTA

Gross

Set the status.

OFF = the gross weight is not printed.
ON = the gross weight is printed.

12.000 kg

COUFUF

GROSS

OFF

on

Net

Set the status.

OFF = the net weight is not printed.
ON = the net weight is printed.

10.000 kg NET

COUFUE

1115 1

NEŁ OFF

OΠ

EN-34 7000 Series Indicators

Tare

Set the status.

OFF = the tare weight is not printed.
ON = the tare weight is printed.

2.000 kg T

DUFUF DUFUF

LArE OFF On

Header

Set the status.

OFF = the user defined header is not printed.ON = the user defined header is printed.

USER DEFINED TEXT

HERAER LONENE

HEAdEr OFF

NOTE: The header information must be defined using the H x "text" interface command. Refer to Section 5.1.

User ID

Set the status.

OFF = the User ID value is not printed.
ON = the User ID value is printed.

User Id: XXXXXXXXXXXX

ONFUF

USEr. Id off on

Project ID

Set the status.

OFF = the Project ID value is not printed.
ON = the Project ID value is printed.

Project Id: XXXXXXXXXXXXX

CONENE PROJECT 18

PrOJ. 1d or on

Scale ID

Set the status.

OFF = the Scale ID value is not printed.
ON = the Scale ID value is printed.

Scale Id: XXXXXXXXXXXX

SCALE 14

SCAL. 1d

OΠ

Date-Time

Set the status.

OFF = the time and date are not printed. ON = the time and date are printed.

01/31/08 12:30 PM

BATE-TIME

dAE.EMA OFF

OΠ

Scale Number

Set the status.

OFF = the Scale Number line is not printed.ON = the Scale Number line is printed.

Scale No: X

Difference

Set the status.

OFF = the difference is not printed following the Calibration Test procedure.
 ON = the difference is printed following the Calibration Test procedure.

----- Cal Test ----New Cal: 10.000 kg
Old Cal: 9.999 kg
Diff: 0.001 kg
Wt. ID: _____

SCALE NO

SCAL.NO OFF

CONENE a ifference

d IFF OFF ON

Information

Set the status.

OFF = the reference information is not printed.ON = the reference information is printed.

NOTE: The reference information is dependent on the mode and the ACCUMULATE setting. Examples are shown below.

Mode	Accumulate set OFF	Accumulate set ON
Weighing	None	N: 10 Total: 10.000 kg Avg: 1.000 kg Std: 0.001 kg Min: 0.999 kg Max: 1.001 kg Diff: 0.002 kg
Counting	APW: 0.100 kg	APW: 0.100 kg N: 10 Total: 1000 Pcs Avg: 100 Pcs Std: 1 Pcs Min: 99 Pcs Max: 101 Pcs Diff: 2 Pcs
Percent	Ref Wt: 1.23 kg	Ref Wt: 1.23 kg
Check Weighing	Under: 0.995 kg Over: 1.005 kg	Under: 0.995 kg Over: 1.005 kg N: 10 Total: 10.000 kg Avg: 1.000 kg Std: 0.001 kg Min: 0.999 kg Max: 1.001 kg Diff: 0.002 kg
Dynamic	Level: 0	Level: 0 N: 10 Total: 10.000 kg Avg: 1.000 kg Std: 0.001 kg

CONENE INFORMATION

INFO OFF EN-36 7000 Series Indicators

Min: 0.999 kg
Max: 1.001 kg
Diff: 0.002 kg

Mode

Set the status.

OFF = the current mode is not printed.
ON = the current mode is printed.

Mode: XXXXXX

UDAE COUFUF

rnode off

on

Name

Set the status.

OFF = the name line is not printed.
ON = the name line is printed.

Name: _____

COUFUF UBJE

NACHE OFF

ON

Alibi Record ID

Set the status.

OFF = the Alibi Record ID line is not printed. ON = the Alibi Record ID is printed.

Alibi Record: XXXXXX

ALIBI 18

AL 16 1

00

NOTE: The Alibi Record ID menu item is only displayed when the Alibi option is installed.

Library ID

Set the status.

OFF = the Library ID line is not printed.ON = the Library ID is printed.

Library Id: XXXXX

CONFUE

L Ib. Id

OΠ

NOTE: "Library Id: -----" is printed when Library Id is set ON, but a Library Record is not in use. This occurs under the following conditions:

- A Library Record is not loaded.
- The loaded Library Record is no longer in use, because a manually entered Tare, APW, Reference Weight, Under Limit, Over Limit or Level has replaced one of loaded values.
- The loaded Library Record is no longer in use, because the indicator was turned off.

Library Name

Set the status.

OFF = the Library Name line is not printed.
ON = the Library Name is printed.

Library Name: XXXXXX

COUFUF

L 16.007

on

NOTE: "Library Id: -----" is printed when Library Id is set ON, but a Library Record is not in use. This occurs under the following conditions:

A Library Record is not loaded.

• The loaded Library Record is no longer in use, because a manually entered Tare, APW, Reference Weight, Under Limit, Over Limit or Level has replaced one of loaded values.

• The loaded Library Record is no longer in use, because the indicator was turned off.

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3.9.5 Layout Sub-menu

This sub-menu is used to define the format of the data output to a printer or computer.

Format

Set the printing format.

MULTI = a multiple line printout is generated. A CRLF is added after each

data output.

SINGLE = a single line printout is generated. A TAB delimiter is added between

each data output.

Feed

Set the paper feed.

NONE = the paper remains in its current position after printing.

LINE = move the paper up one line after printing.

4 LINE = move the paper up four lines after printing.

FORM = a form feed is appended to the output.

3.9.6 List

Print the specified data.

MENU = print all menu settinas.

ALIBI = print a range of alibi records stored in memory.

LIBRARY = print all library records stored in memory.

NOTE: The ALIBI selection is only available when the ALIBI Memory Option is installed.

When ALIBI is selected, set the range of Alibi records to be printed.

START = Enter the first record in the range. Settings from 1 to

the last stored record number are available.

END. = Enter the last record in the range. Settings from the Start value

to the last stored record number are available.

NOTE: To print all Alibi records, do not change the Start and End values. To print a single record, enter the same record number for the Start and End values.

3.9.7 End Print1, End Print2

Advance to the next menu or return to the top of the current menu.

Pr 1**NE 1**

EDRORT

FO-MUL

S INGLE

FBAONF

FEEd

FEEd none

L INE

FORT

Pr INE 1

L 157

L 15E

AL Ib I

L IBAAAY

56Are

End 00 1234

Pr INE 1 End PR INT I

3.10 COM1, COM2 Menus

Enter this menu to define communication parameters.

NOTE: The COM2 menu is only available if an optional RS232 PC Board or RS485/RS422 PC Board is installed.

מת<u>ארת</u> נפיו

3.10.1 Reset

Reset the COM menus to the factory defaults. Factory default settings are shown in bold.

NO = not reset YES = reset

EOMA : RESER

r**ESEŁ** no 985

3.10.2 Baud

Set the baud rate.

300 = 300 bps 600 = 600 bps 1200 = 1200 bps 2400 = 2400 bps 4800 = 4800 bps **9600** = 9600 bps 19200 = 19200 bps

6077 1

3.10.3 Parity

Set the data bits and parity.

7 EVEN = 7 data bits, even parity 7 ODD = 7 data bits, odd parity 7 NONE = 7 data bits, no parity 8 NONE = 8 data bits, no parity

EOPA 1

PAr 164 1 EUEN 1 OAA 1 NONE 8 NONE

3.10.4 Stop Bit

Set the number of stop bits.

1 = 1 stop bit 2 = 2 stop bits

510P 6 175

SEOP

3.10.5 Handshake

Set the flow control method.

NONE = no handshaking XON-XOFF = XON/XOFF handshaking

HARDWARE = hardware handshaking (COM1 menu only)

[007]

HANdSHAFE

HANASH

HON-HOFF

HARAJARE

3.10.6 Address

Set the communication address (COM2 menu only).

OFF = no address 01 to 99 = address 01 to 99

NOTE: The Address menu item is only displayed in the COM2 menu if the optional RS485/RS422 PC Board is installed.

0000 2

Addr ES

0 :

99

3.10.7 Alternate Command Sub-menu

Enter this sub-menu to set a different command character for the P (Print), T (Tare) or Z (Zero) commands.

NOTE: The selected character can only be used for one command.

EOF7 :

Alternate Print Command

Set the alternate command character for Print.

Settings of A to Z are available. The default setting is P.

ALE.ECT

Pr 10E

2

Alternate Tare Command

Set the alternate command character for Tare.

Settings of A to Z are available. The default setting is **T**.

ALE.CO

EArE A

Alternate Zero Command

Set the alternate command character for Zero.

Settings of A to Z are available. The default setting is Z.

ALE.[[7]

2**E**r0 8

3.10.8 End COM1, End COM2

Advance to the next menu or return to the top of the current menu.

Ena con i

3.11 I-O Menu

Enter this menu to set the optional input and output device parameters.

3.11.1 Reset

Reset the I-O menu to the factory defaults.

NO = not reset YES = reset

นนั้ยนก

1-0

1-0 RESET

rE5EŁ

YE5

3.11.2 External Input

Set the function to be controlled by an optional external input device, such as a footswitch.

OFF = disabled

TARE = equivalent to pressing the **TARE** button.

ZERO = equivalent to pressing the **ZERO** button.

PRINT = equivalent to pressing the **PRINT** button.

FUNCTION = equivalent to pressing the **FUNCTION** button.

S-S = when the optional relay pc board is installed, the first external input

changes the state of the relay; the second external input returns the

relay to the original state (START-STOP).

T-S-S = when the optional relay pc board is installed, the first external input

changes the state of the relay; the second external input returns the

relay to the original state (TARE-START-STOP).

3.11.3 Input Beep

Set the beeper response to an external input.

OFF = the beeper does not sound.

ON = the beeper sounds.

!-0 ™РИТ ЬЕЕР

1-11

OFF

TARE

2EA0

PB 107

5-5

7-5-5

FUNC 7 100

INPUT

111611F

M.bEEP

on

1-11

רטפרעם

3.11.4 Relay Output Sub-menu

Set the relay output parameters.

NOTE: The Relay Output sub-menu and associated menu items are not displayed unless the optional Relay PC Board is installed.

Type

Set the initial state of the relay.

OPEN = the relay output is normally open. CLOSED = the relay output is normally closed. OUE PUE

ŁYPE OPEN

79PE

CLOSEd



CAUTION: The normally closed relay condition is only active while the indicator is powered on. When powered off or when power is removed, the relay condition returns to a normally open condition. Restoring power to the indicator will restore the closed condition of the relays.

Output Sequence

Set how the relay outputs react as the weight reading changes from under to accept, accept to over.

NORMAL = the previously enabled relay will be disabled as the next relay is

enabled.

HOLD = the previously enabled relay will hold the same state as the next relay

is enabled.

OULPUL SEQUENCE

589 00878L

HOLd

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Contact

Set the timing of the relay contacts.

SIMULTANEOUS = the relays open or close at the same time.

= the relay opens before the next relay closes (break-before-make). B-B-M M-R-R = the relay closes before the next relay opens (make-before-break).

NOTE: Break-before-make has a 100 ms delay. Make-before-break has a 100 ms over-lap.

DUEPUE כסחותכו

COUFAC

S INUL TANEOUS

b-b-7

7-6-6

Stable

Set the stability condition for the relay to change state.

OFF = relay changes are immediate.

ON = relay changes are delayed until the reading becomes stable.

OUEPUE STABLE

SEABLE

OFF

OΠ

3.11.5 End I-0

Advance to the next menu or return to the top of the current menu.

1-[] ENd 1-0

3.12 Menu Lock Menu

Use this menu to prevent unauthorized changes to menu settings. When the security switch is set to ON, the locked menus can be viewed but not changed.

NUEUN

DENU LOCK

3.12.1 Reset

Reset the Menu Lock menu to the factory defaults. Factory default settings are shown in bold.

NO = not reset YFS = reset

NOTE: Settings for Legal for Trade controlled menu items are not reset.

L.PAENU AESE?

rE5EŁ nο

YE5

3.12.2 Lock Calibration

Set the status.

OFF = the Calibration menu is not locked. ON = the Calibration menu is locked.

L.MAENU LOCH CAL

L.CAL OFF

OΠ

3.12.3 Lock Setup

Set the status.

OFF = the Setup menu is not locked. ON = the Setup menu is locked.

L.PAENU

LOCH SETUP

L.SEŁUP OFF

OΠ

3.12.4 Lock Readout

Set the status.

OFF = the Readout menu is not locked. ON = the Readout menu is locked.

L.PAENU LOCH REAGOUT

L.rEAd OFF

OΠ

3.12.5 Lock Mode

Set the status.

OFF = the Mode menu is not locked. ON = the Mode menu is locked.

L.PAENU 10CF 704E

L.MODAE OFF

3.12.6 Lock Unit

Set the status.

OFF = the Unit menu is not locked. ON = the Unit menu is locked.

L.MAENU LOCH UN 17

L.U// 1E OFF

3.12.7 Lock Print1

Set the status.

OFF = the Print1 menu is not locked. ON = the Print1 menu is locked.

L.PAENU LOCK PRINT!

L.Pre 1 OFF

OΠ

3.12.8 Lock Print2

Set the status.

OFF = the Print2 menu is not locked. ON = the Print2 menu is locked.

L.PAEAU LOCK PAINTS

L.Pre2 OFF

On

3.12.9 Lock COM1

Set the status.

OFF = the COM1 menu is not locked. ON = the COM1 menu is locked.

L.POENU LOCH COT !

L.[0rq | OFF

OΠ

3.12.10 Lock COM2

Set the status.

OFF = the COM2 menu is not locked. ON = the COM2 menu is locked.

L.PAENU FOC+ COUS

1.00772 OFF

3.12.11 Lock GMP

Set the status.

OFF = the GMP menu is not locked. ON = the GMP menu is locked. L.Grap

on

3.12.12 Lock I-0

Set the status.

OFF = the I-O menu is not locked.
ON = the I-O menu is locked.

L. PAENU LOCH 1-0

L. 1-0

On

3.12.13 End Menu Lock

Advance to the next menu or return to the top of the current menu.

L.PAERU Ena henuloch

3.13 Key Lock Menu

Use this menu to prevent unauthorized access to button functions. When the security switch is set to ON, the locked buttons are disabled.

LUEUR FEA FOCE

3.13.1 Reset

Reset the Key Lock menu to the factory defaults. Factory default settings are shown in bold.

NO = not reset YES = reset L.FEY RESET

-E5EŁ

YE5

3.13.2 Lock All Buttons

Set the status.

OFF = all buttons are not locked.
ON = all buttons are locked.

L.FEY

L.ALL OFF

3.13.3 Lock Off Button

Set the status.

OFF = the Off button is not locked.
ON = the Off button is locked.

L.HEY LOCH OFF

L.OFF

OFF ON

3.13.4 Lock Zero Button

Set the status.

OFF = the Zero button is not locked.
ON = the Zero button is locked.

L.**F.E.Y** LOCH 2680

L.2E+0 OFF

OΠ

3.13.5 Lock Print Button

Set the status.

OFF = the PRINT button is not locked.

ON = the PRINT button is locked.

L.FEY LOCK PRINT

L.Pr INE

DΠ

3.13.6 Lock Unit Button

Set the status.

OFF = the Unit button is not locked.
ON = the Unit button is locked.

L.FEY

L.UN 1E

on

3.13.7 Lock Function Button

Set the status.

OFF = the FUNCTION button is not locked.
ON = the FUNCTION button is locked.

L.FEY

L.FUNC

on

3.13.8 Lock Mode Button

Set the status.

OFF = the Mode button is not locked.

ON = the Mode button is locked.

L.**F.E.Y**

L.PAOdE

on

3.13.9 Lock Tare Button

Set the status.

OFF = the TARE button is not locked.
ON = the TARE button is locked.

L.FEY

L.ŁA-E

on

3.13.10 Lock Menu Button

Set the status.

OFF = the Menu button is not locked.

= the Menu button is locked.

L.FEY

L.P7ENU

OΠ

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3.13.11 Lock Library Button

Set the status.

OFF = the LIBRARY button is not locked.
ON = the LIBRARY button is locked.

L.**F.E.Y** LOCH L IBAAAY

L.L 16 off

3.13.12 Lock Info Button

Set the status.

OFF = the Edit button is not locked.
ON = the Edit button is locked.

L.HEY LOCH INFO

L. **INFO** OFF

3.13.13 End Lock

Advance to the next menu or return to the top of the current menu.

L.HEY

3.14 End Menu

Advance to the Calibration Menu or exit the menu and return to the current application mode.

rnenu ena

3.15 Securing the Menu and Key Lock menu settings

A slide switch located on the Main PC Board inside the housing is used to secure the Menu Lock and Key Lock menu settings. When the switch is set to the ON position, the Menu Lock and Key Lock menu settings may be viewed but not changed.

Open the housing as explained in Section 2.3.1. Set the position of the switch to ON as shown in Section 1.2, Figure 1-3, Item 11.

When the switch is in the ON position, the start up display includes the LOCK ON message.

CHAUS

Note: This switch is also used in conjunction with the Legal for Trade menu item. When the Legal for Trade menu is set to ON, the switch must be set to the ON position to prevent calibration and changes to metrologically significant settings. Refer to Section 6 for more information.

4. OPERATION

4.1 Turning Indicator On/Off

To turn the indicator on, press **ON/ZERO Off**. The indicator performs a display test followed by a series of informational displays, and then enters the last active mode.

0.000 kg

To turn the indicator off, press and hold **ON/ZERO Off** until -OFF- appears.

-OFF-

If powered by AC mains, the indicator enters standby and displays the clock.

05:20 P

If powered by batteries, the indicator turns off completely.

4.2 Zero Operation

Press **ON/ZERO Off** to zero the display.

NOTE: The display must be stable and within the Zero Range.

0.002

0.000 kg

4.3 Manual Tare

Place the container on the scale and press TARE.

NOTE: The display must be stable.

To clear the tare, remove all weight from the scale and press TARE.

1.000 kg

NET 0.000 kg

4.4 Preset Tare

Enter the preset tare value using the numeric keypad, then press **TARE**. The display will show the PT symbol and the tare value as a negative number.

NET - 1.000 kg

To clear the preset tare, remove all weight from the scale and press TARE.

NOTE: The preset tare value may also be entered or cleared using the xT command. (See Section 5.1.)

4.5 Auto Tare

When Auto Tare is set ON in the Setup menu, the initial item placed on the scale is automatically tared

1.000 kg

The tare value is automatically cleared when the weight on the scale is fully removed.

NET 0.000 kg

4.6 Changing Units of Measure

Press and hold **Units** until the desired unit of measure is displayed, then release the button.

0.000 kg

NOTE: Only units of measure enabled in the Unit menu will be displayed. (See Section 3.7.)

° 0.000 ю

EN-48 7000 Series Indicators

4.7 Printing Data

Press the **PRINT** button to send data to a printer or computer.

NOTE: To ensure that the desired data is output correctly, first set the printing parameters (Section 3.9) and the Communication parameters (Section 3.10).

NOTE: Data may also be printed using the P command. (See Section 5.1.)

4.8 Dual Scale Operation

If a second scale base is attached to the indicator, press and hold the 1s2 button to alternate the display between the readings for scale 1 and scale 2. The scale symbol on the display identifies which scale is active. 1s indicates that scale 1 is active.s2 indicates that scale 2 is active.

NOTE: DUAL SCALE must be set to ON in the SETUP menu and the second scale must be set up and calibrated.

° 0.000 kg ls

· 0.000 kg si

4.9 Application Modes

Press and hold **Mode** until the desired application mode is displayed, then release the button.

NOTE: Only modes enabled in the Mode menu will be displayed. (See Section 3.6.)

4.9.1 Weighing

Use this mode to weigh items in the desired unit of measure.

Place the item to be weighed on the scale and read the value on the display.

NOTES: Press **FUNCTION** to display the weight briefly in 10x expanded resolution if Accumulate is set to OFF in the Setup menu.

Press **FUNCTION** to add the displayed count to the accumulation data if Accumulate is set to MANUAL in the Setup menu.

If Accumulate is set to AUTO in the Setup menu, the displayed weight is automatically added to the accumulation data when the reading becomes stable.

1004E

0.000 kg

·° 1. 123 kg

° 1.1234 kg

4.9.2 Parts Counting

Use this mode to count parts of uniform weight. The indicator supports positive counting and negative counting. Positive counting refers to counting parts as they are added to the empty scale. Negative counting refers to counting parts that have already been added to the scale.

COUNT ING

NOTES: If Accumulate is set to OFF in the Setup menu, the second line displays the weight in current unit by default. Pressing FUNC can switch the second line display between weight and APW.

If Accumulate is set to MANUAL in the Setup menu, press **FUNCTION** to add the displayed count to the accumulation data.

If Accumulate is set to AUTO in the Setup menu, the displayed count is automatically added to the accumulation data when the reading becomes stable.

Defining the Average Piece Weight for Positive Counting

To define the average piece weight (APW), place a specified quantity on the scale.

When the **Mode** button is released, CLEAR APW? appears.

Press No to use the stored APW or press Yes to establish a new APW.

When establishing a new APW, the display alternates between PLACE 10 OR and ENTER APW.

COUNT Pcs

* 0.000 kg
PLACE 10 0A
ENTER APJ

NOTE: To change the specified number of pieces, press **No** repeatedly. The display will step through the alternative sample sizes: PLACE 5, PLACE 10, PLACE 20, PLACE 50 and PLACE 100.

° 0.000 kg PLACE 20 0A

To define the APW using parts, place the specified quantity of parts on the scale and press the **FUNCTION** button.

1.200 kg PLACE 10 DA

To define the APW using a numeric value, enter the value using the keypad, then press the **FUNCTION** button.

0.012 kg ENTER APJ

Positive Counting

After defining the APW, place the items to be counted on the scale and read the value on the display. The number of pieces appears on the top line and the actual weight appears on the bottom line.

Ū Pcs 0.000 ⊦6

123 Pcs

Defining the Average Piece Weight for Negative Counting

Define average piece weight (APW) by removing a specified quantity from a full container on the scale.

When **Mode** is released, CLEAR APW? is displayed.

Press **No** to use the stored APW or press the **Yes** button to define a new APW.

COUNE Pcs

When establishing a new APW, the display alternates between PLACE 10 OR and ENTER APW.

* 0.000 kg
PLACE 10 0A
ENTER APU

To enable negative counting, press and hold the +/- button until the display shows PLACE TOTAL.

To establish the APW, place the entire quantity of parts on the scale and press **FUNCTION**.

* 0.000 kg PLACE 707AL

Then remove the specified quantity of parts from the scale and press **FUNCTION**.

* 1.476 kg AE70UE 10 OA

NOTE: To change the specified number of pieces, press **No** repeatedly. The display will step through the alternative sample sizes: PLACE 5, PLACE 10, PLACE 20, PLACE 50 and PLACE 100.

° 1.47**5** kg AE70UE 20 0A

NOTE: At this stage, it is still possible to define the APW by entering the value using the keypad and pressing the **FUNCTION** button.

NOTE: The Total PCS will be cleared when the APW is re-established.

Negative Counting

After defining the APW, read the value on the display. The number of pieces appears on the top line and the actual weight appears on the bottom line.

123 Pcs

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4.9.3 Percent Weighing

Use this mode to compare the weight of items as a percentage of a Reference Weight.

Defining the Reference Weight

When the **Mode** button is released, CLEAR REF? is displayed. Press **No** to use the stored Reference Weight or press **Yes** to establish a new Reference Weight.

When establishing a new Reference Weight., the display alternates between PLACE REF OR and ENTER REF.

To establish the Reference Weight using an item, place the item on the scale and press FUNCTION.

To establish the Reference Weight using a numeric value, enter the value using the keypad, then press **FUNCTION**.

Percent Weighing

After defining the reference weight, place an item on the scale and read the value on the display. The percent value is displayed on the top line and the actual weight is displayed on the bottom line.

NOTE: Press **FUNCTION** to briefly display the Reference Weight.

4.9.4 Dynamic Weighing

Use this mode to weigh moving items or large items that block the display.

NOTE: If Accumulate is set to AUTO in the Setup menu, the held weight is automatically added to the accumulation data.

Manual operation (DYNAMIC is set to MANUAL in the MODE menu) When the display shows READY, place the item on the scale.

Press **FUNCTION** to average the readings for the time period defined in the LEVEL setting (Section 3.6.6).

When averaging is completed, the dynamic icon flashes. The averaged weight and HOLD are displayed until **FUNCTION** is pressed again.

Semi-automatic operation (DYNAMIC is set to SEMI in the MODE menu)

When the display shows READY, place the item on the scale. The readings are automatically averaged for the time period defined in the LEVEL setting. The averaged weight and HOLD are displayed until the item is removed and **FUNCTION** is pressed.

Automatic operation (DYNAMIC is set to AUTOMATIC in the MODE menu)

When the display shows READY, place the item on the scale. The readings are automatically averaged for the time period defined in the LEVEL setting. The averaged weight and HOLD are displayed until the item has been removed from the scale for 10 seconds.

PERCENT

PEr[NE %

.° 0.000 kg PLACE AEF DA ENJEA AEF

° 12.345 kg PLACE AEF OA

12.345 kg

100.0

12.345 FG

360071

.° **0.000 kg** AEAdy ∈

12.345 kg
5 SECONAS ∈
4 SECONAS ∈
3 SECONAS ∈
2 SECONAS ∈
1 SECONA ∈

12.345 kg HOLd ∈

4.9.5 Check Weighing

Use this mode to compare the weight or quantity of items to a target weight range. The indicator supports positive, negative and zero check weighing.

CHECHUE IGH

NOTES: If Accumulate is set to OFF in the Setup menu, press **FUNCTION** to display the limits.

If Accumulate is set to MANUAL in the Setup menu, press **FUNCTION** to add the displayed

weight to the accumulation data.

If Accumulate is set to AUTO, the stable weight is automatically added to the accumulation data.

Defining the Under and Over Limits

When the **Mode** button is released, EDIT LIMITS? appears. Press **No** to use the stored UNDER and OVER limits or press **Yes** to define new limits.

EAECH kg

When defining the limits, the display shows UNDER and the current setting. To keep the current under limit, press **Yes**.

U∏dEr kg 0.000

To change the UNDER limit, enter the new limit using the keypad. To change the sign of the limit, press and hold +/- (CLR/+/-). Then press **FUNCTION**.

⊍∏dEr kg

The display shows OVER and the current setting. To keep the current over limit, press Yes.

0UEr kg

To change the over limit, enter the new limit using the keypad. To change the sign of the limit, press and hold +/-. Then press **FUNCTION**.

00Er kg

Positive Check Weighing

Positive check weighing is used to determine when the material added to the scale is within the target range. In this case, the under and over limits must be positive values. (The OVER limit must be greater than the UNDER limit.)

Add material to the scale until it is within the ACCEPT range.

UNDER ACCEPT OVER

If the item is lighter than the UNDER limit, the yellow UNDER LED will light. If the item is within the target weight range, the green ACCEPT LED will light. If the item is heavier than the OVER limit, the red OVER LED will light.





Negative Check Weighing

Negative check weighing is used to determine when the material removed from the scale is within the target range. In this case, the UNDER and OVER limits are both negative values. (The UNDER limit must be greater than the OVER limit.)

UNDER ACCEPT OVER

Place the item to be weighed on the scale and press **TARE**. Remove a portion of the item until it is within the ACCEPT range.

· - 1.000 kg

· -2.000 kg

If the item is heavier than the UNDER limit, the yellow UNDER LED will light. If the item is within the target weight range, the green ACCEPT LED will light. If the item is lighter than the OVER limit, the red OVER LED will light.

Zero Check Weighing

Zero check weighing is used when comparing subsequent samples to an initial reference sample. In this case, the UNDER limit must be a negative value and the OVER limit must be a positive value.

Place the reference item on the scale and press TARE. Remove the reference sample and place the item to be compared on the scale to determine if it is within the ACCEPT range.

If the item is lighter than the UNDER limit, the vellow UNDER LED will light. If the item is within the target weight range, the green ACCEPT LED will light. If the item is heavier than the OVER limit, the red OVER LED will light.

- 1.000 kg O • O 0.000

O O

UNDER ACCEPT OVER 1.000 kg

MODE CHECHUE IGH

[HE[}

CLEAR APUP

Ea 17 L 17 1752

Pcs

4.9.6 PCS (Pieces Counting) Check Weighing

Set Checkweigh to PCS in the Mode Menu. Use this mode to compare the quantity of items to a target augntity range. The indicator supports positive, negative and zero check counting.

NOTES: If Accumulate is set to OFF in the Setup menu, press the FUNCTION button to briefly display the UNDER and OVER limits and the APW value.

If Accumulate is set to MANUAL in the Setup menu, press the **FUNCTION** button to add the displayed quantity to the accumulation data.

If Accumulate is set to AUTO, the stable quantity is automatically added to the accumulation data.

Defining the Average Piece Weight (APW) and the Under and Over Limits

If CHECK was set to PCS in the MODE menu:

When the Mode key is released, the display shows: CHECK on the first line, CLEAR APW? on the second line, and the **Pcs** icon appears on the right.

Press **No** to use the previously defined APW and go to the step for setting UNDER and OVER Limits. Press **Yes** to define a new APW.

NOTE: Check Counting mode shares the same APW with Counting mode.

When establishing a new APW, the display alternates between PLACE 10 OR and ENTER APW.

NOTE: To change the specified number of pieces, press No repeatedly. The display will step through the alternative sample sizes: PLACE 5, PLACE 10, PLACE 20, PLACE 50 and PLACE 100.

CHECH Pcs PLACE 10 DA ENTER APJ

To define the APW using samples, place the samples on the scale, then press **FUNCTION**. To define the APW using a numeric value, enter the value using the keypad, then press **FUNCTION**. **NOTE:** The APW is taken in the current weighing unit.

NOTE: The Total PCS will be cleared when the APW is re-established.

After the APW is defined, a screen prompt asks: EDIT LIMITS?

(If Kg appears to the right of CHECK instead of Pcs, change the Checkweigh setting in the MODE menu.)

Press Yes to set new limits.

When defining the limits, the display shows UNDER and the current setting.

Press No to use the previously defined UNDER and OVER Limits.

To keep the current UNDER limit, press Yes, or

To change the UNDER limit, use the keypad to enter the desired number and press **Yes**.

(To change the sign of the limit, press and hold +/- before pressing Yes.)

The display next shows OVER and the current setting.

To keep the current OVER limit, press Yes, or

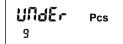
To change the OVER limit, use the keypad to enter the new limit, and press **Yes**.

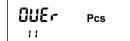
(To change the sign of the limit, press and hold +/- before pressing **Yes**.)

The indicator is now ready for Check Counting. It will show:

- ACCEPT if the defined number of pieces are placed on the scale, or
- OVER if the number of pieces exceeds the limit, or
- UNDER when the number of pieces is less than the limit.







Positive Check Counting

Use Positive Check Counting to determine when the quantity added to the scale is within the target range. In this case, the UNDER and OVER limits must be positive values. The OVER limit must be greater than the UNDER limit.

Add items to the scale until the quantity is within the accept range.

If the quantity is lower than the UNDER limit, the yellow UNDER LED will light. If the quantity is within the target quantity range, the green ACCEPT LED will light. If the quantity is higher than the OVER limit, the red OVER LED will light.





Negative Check Counting

Negative Check Counting is used to determine when the quantity removed from the scale is within the target range. In this case, the under and over limits are both negative values. The under limit must be greater than the over limit.

Place the items to be counted on the scale and press **TARE**. Remove items until the quantity is within the ACCEPT range.

If the quantity is higher (less negative) than the UNDER limit, the yellow UNDER LED will light. If the quantity is within the target quantity range, the green ACCEPT LED will light. If the quantity is lower (more negative) than the OVER limit, the red OVER LED will light.





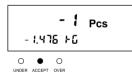


Zero Check Counting

Zero check counting is used when comparing subsequent samples to an initial reference sample. In this case, the UNDER limit must be a negative value and the OVER limit must be a positive value.

Place the reference quantity on the scale and press **TARE**. Remove the reference quantity and place the quantity to be compared on the scale to determine if it is within the ACCEPT range.

If the quantity is lower than the UNDER limit, the yellow UNDER LED will light. If the quantity is within the target quantity range, the green ACCEPT LED will light. If the quantity is higher than the OVER limit, the red OVER LED will light.







4.10 Library

When an item is processed on a regular basis, the item's data may be stored in memory for future use.

The following data is stored for each mode.

Mode	Record ID	Name	Preset Tare	APW	Reference Wt.	Under Limit	Over Limit	Level
Weighing	✓	✓	✓					
Counting	✓	✓	✓	✓				
Percent Weighing	✓	✓	✓		✓			
Check Weighing	✓	✓	✓			✓	✓	
Check Counting	✓	✓	✓	✓		✓	✓	
Dynamic Weighing	✓	✓	✓					✓

NOTES: LIBRARY must be set to ON in the SETUP menu (Section 3.4.18). Up to 256 library records may be stored.

4.10.1 Storing Library Data

Select the desired Mode using the **Mode** button. Press **LIBRARY** to view the next available memory location for the active mode.

The display shows the Record ID with a mode prefix and a unique identification number.

Wxxx = Weighing records
PCxxx = Parts Counting records
Pxxx = Percent Weighing records
Cxxx = Check Weighing records
CCxxx = Check Counting records
Dxxx = Dynamic Weighing records

Press ${f No}$ to advance to the next Record ID or press ${f Yes}$ to begin entering the library data for the displayed Record ID.

The data type appears on the first line. The data value appears on the second line. Use the keypad to change the data value. Press **Yes** to accept the data value and move to the next data type.

Weighing Mode Library Records

The Name of the item is displayed. By default, the Name is the same as the Record ID. Use the keypad to change the value. Press **Yes** to accept the value.

NOTE: The Name length can be a maximum of 7 characters.

The Preset Tare of the item is displayed. By default, the current Tare is used as the Preset Tare value. Use the keypad to change the value. Press **Yes** to accept the value.

To save the record, press Yes.

L 16

L 16 PC00 1

L 16

C00 :

L 16

L 16

NALJE

NAPPLES

0.000 +C

P.ŁA-E

LJOO I SAUE AECOAJA

Counting Mode Library Records

The Name of the item is displayed. By default, the Name is the same as the Record ID. Use the keypad to change the value. Press **Yes** to accept the value.

NOTE: The Name length can be a maximum of 7 characters.

UBDUE PC001

NAPAE

194 IZ SCREJ

The Preset Tare of the item is displayed. By default, the current Tare is used as the Preset Tare value. Use the keypad to change the value. Press Yes to accept the value.

PLEARE 0.000 +6

P.EArE 1.000 FG

The APW of the item is displayed. By default, the current APW is used as the APW value. Use the keypad to change the value. Press **Yes** to accept the value.

APLU 0.000 +6

APLL 0.0 12 +6

To save the record, press Yes.

PC001

SAUE RECORA?

Percent Weighing Mode Library Records

The Name of the item is displayed. By default, the Name is the same as the Record ID. Use the keypad to change the value. Press Yes to accept the value. **NOTE:** The Name length can be a maximum of 7 characters.

NAPAE P00 t

UBLUE 123456

The Preset Tare of the item is displayed. By default, the current Tare is used as the Preset Tare value. Use the keypad to change the value. Press Yes to accept the value.

PLEARE 0.000 +6

P.ŁArE 1.000 FG

The Reference Weight of the item is displayed. By default, the current Reference Weight is used as the Reference Weight value. Use the keypad to change the value. Press Yes to accept the value.

rEF.bult 0.000 +6

rEF.bdt 0.0 12 +6

To save the record, press Yes.

P00 1

SAUE RECORAP

Check Weighing Mode Library Records

NOTE: The Name length can be a maximum of 7 characters.

The Name of the item is displayed. By default, the Name is the same as the Record ID. Use the keypad to change the value. Press Yes to accept the value.

UBLUE

NALUE

0001

SEU 12 1590

The Preset Tare of the item is displayed. By default, the current Tare is used as the Preset Tare value. Use the keypad to change the value. Press Yes to accept the value.

P.EArE 0.000 +6

PLEARE 0.0 15 +6

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The Under Limit of the item is displayed. By default, the current UNDER Limit is used as the UNDER Limit value. Use the keypad to change the value. Press **Yes** to accept the value.

<u>UNdE</u>r 0.000 ⊦6

<u>UNdE</u>r 0.250 +6

The OVER Limit of the item is displayed. By default, the current OVER Limit is used as the OVER Limit value. Use the keypad to change the value. Press **Yes** to accept the value.

00Er 0.000 +6

00**E**r 0.260 +0

To save the record, press Yes.

COO!

Check Counting Mode Library Records

The Name of the item is displayed. By default, the Name is the same as the Record ID. Use the keypad to change the value. Press **Yes** to accept the value. **NOTE:** The Name length can be a maximum of 7 characters.

NALJE

CC00 1

7977E 5+0 12 1590

The Preset Tare of the item is displayed. By default, the current Tare is used as the Preset Tare value. Use the keypad to change the value. Press **Yes** to accept the value.

P.ŁA-E 0.000 +6

P.ŁA-E 0.0 15 +6

The APW of the item is displayed. By default, the current APW is used as the APW value. Use the keypad to change the value. Press **Yes** to accept the value.

APLJ 0. 1200 +6

APLJ 0.2300 +6

The UNDER Limit of the item is displayed. By default, the current UNDER Limit is used as the UNDER Limit value. Use the keypad to change the value. Press **Yes** to accept the value.

<u>U∏dE</u>r 0 PCS

<u>UΠdE</u>r 100 PCS

The OVER Limit of the item is displayed. By default, the current Over Limit is used as the OVER Limit value. Use the keypad to change the value. Press **Yes** to accept the value.

0UE+

110 PCS

To save the record, press Yes.

CCOO! SAUE RECORA?

Dynamic Weighing Mode Library Records

The Name of the item is displayed. By default, the Name is the same as the Record ID. Use the keypad to change the value. Press **Yes** to accept the value.

NOTE: The Name length can be a maximum of 7 characters.

400 :

NAPAE CATALE

The Preset Tare of the item is displayed. By default, the current Tare is used as the Preset Tare value. Use the keypad to change the value. Press **Yes** to accept the value.

P.ŁA-E

P.ŁA-E

The Level (averaging time) of the item is displayed. By default, the current Level is used as the Level value. Use the keypad to change the value. Press **Yes** to accept the value.

LEUEL

LEUEL

To save the record, press Yes.

4.10.2 Retrieving Data

d<mark>00 |</mark> SAUE AECOAJ?

3,,00

2

P1005

STARJBERR IES

NET -0.250 ka

4.10.3 Editing Stored Data

Press Yes to load the data for the displayed Record ID.

Press **Mode** to select the desired Mode. Enter the Record ID number (without prefix) and press **LIBRARY** to view the desired memory location.

Press **Mode** to select the desired Mode. Enter the Record ID number (without prefix) and press **LIBRARY** to view the desired memory location. To view a different Record ID, press **No**.

3

L 16 PC003

l line.

PC003 116H20 60L7

_ ∋. г **76H2O 60L7**

7877E

76H IS 60L7

P.ŁA-E 0.000 +6

P.ŁA-E

PCOO3 SAUE RECORAP

The Record ID is displayed on the first line and the Name of the item is displayed on the second line. Press and hold **Edit** to begin editing the library data.

If desired, edit the displayed data value using the keypad. Then press **Yes** to view the next data type.

If desired, edit the displayed data value using the keypad. Then press Yes.

After all data types have been viewed, press Yes to save the changes.

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4.10.4 Deleting Stored Data

Select the desired Mode using the **Mode** button. Enter the Record ID number (without prefix) and press **LIBRARY** to view the desired memory location. To view a different Record ID, press **No**.

3

PC003 16H20 60L7

Press the **CLR** button, then **Yes** to delete the data for the current library record. The display returns to the current mode.

PCOO3

Note: If you do not want to delete the library record, press **No**. The display returns to the current library record. Press **Exit** to return to the current mode.

4.11 Accumulation and Statistics

The Accumulation feature enables manual or automatic totalizing of displayed values. Statistical data is stored in memory for review and printing.

1.000 kg

Notes: Set ACCUMULATE to MANUAL or AUTO in the SETUP menu. The Accumulation function is available in Weighing, Counting, Dynamic and Check Weighing modes.

Accumulation data is stored separately for each mode.

To include statistics data when printing, set INFORMATION to ON in the PRINT CONTENT menu.

4.11.1 Accumulating Displayed Values

With ACCUMULATE set to MANUAL, place the item on the scale and press **FUNCTION** to accumulate the displayed value.

With ACCUMULATE set to AUTO, place the item on the scale. The displayed value is accumulated automatically.

The accumulated value is displayed on the second line.

Note: The item must be removed from the scale before the next item can be accumulated.

1.000 kg

1.000 kg

4.11.2 Viewing Statistics Data

To view the statistics data, press **INFO** (**0** on the keypad). The following statistics data will be displayed momentarily: number of weighings, total, average, standard deviation, minimum, maximum, and difference.

56865 kg

5EAES kg

5EAES kg AUG 1.000

5EAES kg 578 0.000

5EAE5 kg

5ERES kg

56865 kg a IFF 0.000

SEAES kg

4.11.3 Clearing Statistics Data

To clear the accumulation value and statistics data, press the **CLR** button while the statistics information is being displayed. When the display shows CLEAR STATS?, press the **Yes** button to clear the statistics data or press the **No** button to keep the statistics data.

4.12 Alibi Memory

When the optional Alibi Memory pc board is installed, weighing results may be stored in memory for future reference by pressing **PRINT** or sending the "P" command. Up to 262,112 alibi records may be stored.

The following data is stored for each mode.

Record ID Weight value Tare value Date

Time

Scale number

NOTES: ALIBI must be set to ON in the SETUP menu.

When the Alibi Memory is full, the Record ID counter begins over at to 000001.

The new data overwrites the previously stored data for that record.

4.12.1 Viewing Alibi Data

To view alibi records, press and hold the **Info** button until ALIBI is displayed. When the button is released, the display shows the first alibi Record ID. Press **Yes** to view that record, or press **No** or **Back** to move to the desired Record ID.

AL 161

0000 **|** AL 16 | AECOAJ

Alternatively, enter the Record ID number using the keypad and press **Function**. Press **Yes** to view the record.

1234 AL IB I RECORA

The stored data is displayed with the value on the first line and the Record ID and data type on the second line. To view the remaining data types, repeatedly press **No**.

12.345 kg

12.345 kg

0 1.04.08 MEM 00 1234:4878

3: 17 P MEM DO 1234:7 17E

To return to the active mode, press Exit.

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4.12.2 Printing Alibi Data

To print alibi records, enter the menu and navigate to the Print>List>Alibi menu (see Section 3.9.6), then press **Yes**.

Pr 101 1

L 15E

The display shows the first stored record number. Press **Yes** to accept the displayed value as the starting record number in the range to be printed.

52Art

If a different starting record number is desired:

- Press **No** to increase the Alibi record number.
- Or press Back to jump to the last Alibi record number stored, then decrease the Alibi record number.
- Or enter the Alibi record number using the keypad.
- Then press Yes to accept the displayed value as the starting record number in the range to be printed.

56Ar6 000002

56876 00 1234

The display shows the last stored record number. Press **Yes** to accept the displayed value as the ending record number in the range to be printed.

End 002345

If a different ending record number is desired:

- Press **No** to jump to the starting Alibi record number that was just defined.
- Or press **Back** to decrease the Alibi record number.
- Or enter the Alibi record number using the keypad.
- Then press **Yes** to accept the displayed value as the ending record number in the range to be printed.

End 00 (234

End 002344

Alibi records are printed in the format shown in Section 5.3.

NOTE: To print all Alibi records, do not change the Start and End values.

To print a single record, enter the same record number for the Start and End values.

5. SERIAL COMMUNICATION

5.1 Interface Commands

The indicator can be controlled using the commands listed below.

Command Characters 1)	Function
ON	Turns the indicator on.
OFF	Turns the indicator off.
IP	Immediate print of displayed weight (stable or unstable).
P ²⁾	Print displayed weight (stable or unstable).
SP	Print on stability.
CP	Continuous print.
хP	Print on interval, where $x = 1$ to 3600 (seconds).
Z ²⁾	Equivalent to pressing the ZERO button.
T ²⁾	Equivalent to pressing the TARE button.
xT	Establish a preset tare, where $x =$ the tare value in the current weighing unit.
PU	Print the current weighing unit.
хU	Change the weighing unit, where $x = 1$ (g), 2 (kg), 3 (lb), 4 (oz), 5 (lb:oz), 6 (t), 7 ©.
PV	Print the name, software version and LFT ON (if LFT is set to ON).
H x "text"	Enter the header line, where $x = 1$ to 5 (line number) and "text" = header text up to 24 characters.
Escape key and R	Global reset (all menu settings are reset to their factory default settings).

NOTES:

- 1) Commands sent to the indicator must be terminated by a carriage return (CR) or a carriage return-line feed (CRLF).
- 2) Alternate command characters may be defined by the user. Refer to Section 3.10.7.
- 3) Data output by the indicator is always terminated with a carriage return-line feed (CRLF).

5.2 Output Format

The Result Data is output in the following format.

Field:	Label 1	Space ²	Weight ³	Space ²	Unit 4	Space	Stability ⁵	Space	G/N ⁶	Space	Term. Characters ⁷
Length:	≤11	≤1	9	≤1	≤ 5	1	≤ 1	≤ 1	≤ 3	≤ 1	≤ 4

- 1) In certain cases, a Label field of up to 11 characters is included. Refer to Section 5.3.
- 2) Each field is followed by a single delimiting space (ASCII 32).
- 3) The Weight field is 9 right justified characters. If the value is negative, the "-" character is located at the immediate left of the most significant digit.
- 4) The Unit field contains the unit of measure abbreviation up to 5 characters.
- 5) The Stability field contains the "?" character if the weight reading is not stable. The Stability field and the following Space field are omitted if the weight reading is stable.
- 6) The G/N field contains the net or gross indication. For net weights, the field contains "NET". For gross weights, the field contains nothing, "G" or "B", depending on the GROSS INDICATOR menu setting. Refer to Section 3.5.8.
- 7) The Termination Characters field contains CRLF, Four CRLF or Form Feed (ASCII 12), depending on the LINE FEED menu setting. (See Section 3.9.5.)

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5.3 Printout Examples

Examples for modes are shown with all CONTENT settings ON and values defined for the header lines.

Content	Weigh Mode	Count Mode	Percent Mode
HEADER 1	Ohaus Corporation	Ohaus Corporation	Ohaus Corporation
HEADER 2	7 Campus Drive	7 Campus Drive	7 Campus Drive
HEADER 3	Parsippany, NJ, 07054	Parsippany, NJ, 07054	Parsippany, NJ, 07054
HEADER 4	USA	USA USA	USA USA
HEADER 5	Tel: +1-973-377-9000	Tel: +1-973-377-9000	Tel: +1-973-377-9000
	01/31/08 12:30 PM		01/31/08 12:30 PM
TIME		01/31/08 12:30 PM	
SCALE NUMBER	Scale No: 1	Scale No: 1	Scale No: 1
ALIBI RECORD	Alibi Record: 4	Alibi Record: 4	Alibi Record: 4
SCALE ID	Scale Id: 123456	Scale Id: 123456	Scale Id: 123456
JSER ID	User Id: 123456	User Id: 123456	User Id: 123456
PROJECT ID	Project Id: 123456	Project Id: 123456	Project Id: 123456
NAME	Name:	Name:	Name:
LIBRARY ID	Library Id: W001	Library Id: PC001	Library Id: P001
Library Name	Library Name: CONTAINER 1	Library Name: BOLT,M4x20	Library Name: DURUM WHEAT
RESULT	11.11 kg NET	Quantity: 12 PCS NET	Percentage: 11 % NET
GROSS	12.34 kg G	12.34 kg G	12.34 kg G
NET	11.11 kg NET	11.11 kg NET	11.11 kg NET
TARE	1.22 kg T	1.22 kg T	1.22 kg T
INFORMATION	(Not printed)	APW 0.1000 kg	Ref Wt 0.012 kg
NFORMATION	(Not printed)	(Not printed)	(Not printed)
INFORMATION	(Not printed)	(Not printed)	(Not printed)
	- - - -		
INFORMATION	(Not printed)	(Not printed)	(Not printed)
STATISTICS	N: 12	N: 12	(Not printed)
STATISTICS	Total: 11.11 kg	Total: 144 Pcs	(Not printed)
STATISTICS	Avg: 11.11 kg	Avg: 12 Pcs	(Not printed)
STATISTICS	Std: 0.010 kg	Std: 0 Pcs	(Not printed)
STATISTICS	Min: 11.09 kg	Min: 12 Pcs	(Not printed)
STATISTICS	min. ii.oo kg	MIN; 12 PCS	(NOC PIINCEA)
	Max: 11.13 kg	Max: 12 Pcs	(Not printed)
STATISTICS			
STATISTICS STATISTICS STATISTICS MODE	Max: 11.13 kg	Max: 12 Pcs	(Not printed)
STATISTICS STATISTICS MODE	Max: 11.13 kg Diff: 0.04 kg	Max: 12 Pcs Diff: 0 Pcs	(Not printed) (Not printed)
STATISTICS STATISTICS MODE Content	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing	Max: 12 Pcs Diff: 0 Pcs Mode: Counting	(Not printed) (Not printed) Mode: Percent
STATISTICS STATISTICS	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode	(Not printed) (Not printed) Mode: Percent Dynamic Mode
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000	(Not printed) (Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM	(Not printed) (Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER.	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1	(Not printed) (Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID USER ID	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID USER ID	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID USER ID PROJECT ID	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: C001	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: C001	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID USER ID PROJECT ID NAME	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name:	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name:	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name:
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID USER ID PROJECT ID NAME LIBRARY ID	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: C001	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: C001	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: D001
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID JSER ID PROJECT ID NAME LIBRARY ID LIBRARY NAME RESULT	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID JSER ID PROJECT ID NAME LIBRARY ID LIBRARY NAME RESULT GROSS	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD Result: 11.11 kg NET OVER 12.34 kg G	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20 Quantity: 12 PCS NET 12.34 kg G	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE Final Wt: 0.200 kg NET 12.34 kg G
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID JSER ID PROJECT ID NAME LIBRARY ID LIBRARY NAME RESULT GROSS NET	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD Result: 11.11 kg NET OVER 12.34 kg G 11.11 kg NET	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20 Quantity: 12 PCS NET 12.34 kg G 11.11 kg NET	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE Final Wt: 0.200 kg NET 12.34 kg G 11.11 kg NET
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID JSER ID PROJECT ID NAME LIBRARY ID LIBRARY NAME RESULT GROSS NET TARE	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD Result: 11.11 kg NET OVER 12.34 kg G 11.11 kg NET 1.22 kg T	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20 Quantity: 12 PCS NET 12.34 kg G 11.11 kg NET 1.22 kg T	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE Final Wt: 0.200 kg NET 12.34 kg G 11.11 kg NET 1.22 kg T
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID USER ID PROJECT ID NAME LIBRARY ID LIBRARY NAME RESULT GROSS NET TARE NFORMATION	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD Result: 11.11 kg NET OVER 12.34 kg G 11.11 kg NET 1.22 kg T Under: 1.00 kg	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20 Quantity: 12 PCS NET 12.34 kg G 11.11 kg NET 1.22 kg T APW 0.1000 kg	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE Final Wt: 0.200 kg NET 12.34 kg G 11.11 kg NET 1.22 kg T Level: 10
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID USER ID PROJECT ID NAME LIBRARY NAME RESULT GROSS NET TARE NFORMATION	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD Result: 11.11 kg NET OVER 12.34 kg G 11.11 kg NET 1.22 kg T Under: 1.00 kg Over: 2.00 kg	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20 Quantity: 12 PCS NET 12.34 kg G 11.11 kg NET 1.22 kg T APW 0.1000 kg Under: 98 Pcs	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE Final Wt: 0.200 kg NET 12.34 kg G 11.11 kg NET 1.22 kg T Level: 10 (Not printed)
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID USER ID PROJECT ID NAME LIBRARY ID LIBRARY NAME RESULT GROSS NET TARE NFORMATION NFORMATION NFORMATION	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD Result: 11.11 kg NET OVER 12.34 kg G 11.11 kg NET 1.22 kg T Under: 1.00 kg Over: 2.00 kg (Not printed)	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20 Quantity: 12 PCS NET 12.34 kg G 11.11 kg NET 1.22 kg T APW 0.1000 kg Under: 98 Pcs Over: 102 Pcs	(Not printed) (Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE Final Wt: 0.200 kg NET 12.34 kg G 11.11 kg NET 1.22 kg T Level: 10 (Not printed) (Not printed)
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID USER ID PROJECT ID NAME LIBRARY ID LIBRARY NAME RESULT GROSS NET TARE NFORMATION NFORMATION NFORMATION NFORMATION	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD Result: 11.11 kg NET OVER 12.34 kg G 11.11 kg NET 1.22 kg T Under: 1.00 kg Over: 2.00 kg (Not printed) (Not printed)	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20 Quantity: 12 PCS NET 12.34 kg G 11.11 kg NET 1.22 kg T APW 0.1000 kg Under: 98 Pcs Over: 102 Pcs (Not printed)	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE Final Wt: 0.200 kg NET 12.34 kg G 11.11 kg NET 1.22 kg T Level: 10 (Not printed) (Not printed) (Not printed)
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID JSER ID PROJECT ID NAME LIBRARY NAME RESULT GROSS NET TARE NFORMATION STATISTICS	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD Result: 11.11 kg NET OVER 12.34 kg G 11.11 kg NET 1.22 kg T Under: 1.00 kg Over: 2.00 kg (Not printed) N: 12	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20 Quantity: 12 PCS NET 12.34 kg G 11.11 kg NET 1.22 kg T APW 0.1000 kg Under: 98 Pcs Over: 102 Pcs (Not printed) N: 12	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE Final Wt: 0.200 kg NET 12.34 kg G 11.11 kg NET 1.22 kg T Level: 10 (Not printed) (Not printed) (Not printed) N: 12
STATISTICS STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID USER ID PROJECT ID NAME LIBRARY NAME RESULT GROSS NET TARE NFORMATION NFORMATION NFORMATION NFORMATION NFORMATION STATISTICS STATISTICS	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD Result: 11.11 kg NET OVER 12.34 kg G 11.11 kg NET 1.22 kg T Under: 1.00 kg Over: 2.00 kg (Not printed) N: 12 Total: 11.11 kg	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20 Quantity: 12 PCS NET 12.34 kg G 11.11 kg NET 1.22 kg T APW 0.1000 kg Under: 98 Pcs Over: 102 Pcs (Not printed) N: 12 Total: 144 Pcs	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE Final Wt: 0.200 kg NET 12.34 kg G 11.11 kg NET 1.22 kg T Level: 10 (Not printed) (Not printed) (Not printed) N: 12 Total: 11.11 kg
STATISTICS STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID USER ID PROJECT ID NAME LIBRARY NAME RESULT GROSS NET TARE NFORMATION NFORMATION NFORMATION NFORMATION NFORMATION STATISTICS STATISTICS	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD Result: 11.11 kg NET OVER 12.34 kg G 11.11 kg NET 1.22 kg T Under: 1.00 kg Over: 2.00 kg (Not printed) N: 12 Total: 11.11 kg Avg: 11.11 kg	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20 Quantity: 12 PCS NET 12.34 kg G 11.11 kg NET 1.22 kg T APW 0.1000 kg Under: 98 Pcs Over: 102 Pcs (Not printed) N: 12 Total: 144 Pcs Avg: 12 Pcs	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE Final Wt: 0.200 kg NET 12.34 kg G 11.11 kg NET 1.22 kg T Level: 10 (Not printed) (Not printed) N: 12 Total: 11.11 kg Avg: 11.11 kg
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STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID JSER ID PROJECT ID NAME LIBRARY NAME RESULT GROSS NET TARE NFORMATION NFORMATION NFORMATION NFORMATION STATISTICS STATISTICS STATISTICS	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD Result: 11.11 kg NET OVER 12.34 kg G 11.11 kg NET 1.22 kg T Under: 1.00 kg Over: 2.00 kg (Not printed) N: 12 Total: 11.11 kg Avg: 11.11 kg	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20 Quantity: 12 PCS NET 12.34 kg G 11.11 kg NET 1.22 kg T APW 0.1000 kg Under: 98 Pcs Over: 102 Pcs (Not printed) N: 12 Total: 144 Pcs Avg: 12 Pcs	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE Final Wt: 0.200 kg NET 12.34 kg G 11.11 kg NET 1.22 kg T Level: 10 (Not printed) (Not printed) (Not printed) N: 12 Total: 11.11 kg Avg: 11.11 kg
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID USER ID PROJECT ID NAME LIBRARY NAME RESULT GROSS NET TARE INFORMATION INFORMATION INFORMATION INFORMATION STATISTICS STATISTICS STATISTICS STATISTICS STATISTICS	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD Result: 11.11 kg NET OVER 12.34 kg G 11.11 kg NET 1.22 kg T Under: 1.00 kg Over: 2.00 kg (Not printed) N: 12 Total: 11.11 kg Avg: 11.11 kg Std: 0.010 kg	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20 Quantity: 12 PCS NET 12.34 kg G 11.11 kg NET 1.22 kg T APW 0.1000 kg Under: 98 Pcs Over: 102 Pcs (Not printed) N: 12 Total: 144 Pcs Avg: 12 Pcs Std: 0 Pcs	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE Final Wt: 0.200 kg NET 12.34 kg G 11.11 kg NET 1.22 kg T Level: 10 (Not printed) (Not printed) (Not printed) N: 12 Total: 11.11 kg Avg: 11.11 kg Std: 0.010 kg
STATISTICS STATISTICS MODE Content HEADER 1 HEADER 2 HEADER 3 HEADER 4 HEADER 5 TIME SCALE NUMBER. ALIBI RECORD SCALE ID USER ID PROJECT ID NAME LIBRARY ID LIBRARY NAME	Max: 11.13 kg Diff: 0.04 kg Mode: Weighing Check Weigh Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: 200 G SALAD Result: 11.11 kg NET OVER 12.34 kg G 11.11 kg NET 1.22 kg T Under: 1.00 kg Over: 2.00 kg (Not printed) N: 12 Total: 11.11 kg Avg: 11.11 kg Std: 0.010 kg Min: 11.09 kg	Max: 12 Pcs Diff: 0 Pcs Mode: Counting Check Count Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: C001 Library Name: BOLT, M4x20 Quantity: 12 PCS NET 12.34 kg G 11.11 kg NET 1.22 kg T APW 0.1000 kg Under: 98 Pcs Over: 102 Pcs (Not printed) N: 12 Total: 144 Pcs Avg: 12 Pcs Std: 0 Pcs Min: 12 Pcs	(Not printed) (Not printed) Mode: Percent Dynamic Mode Ohaus Corporation 7 Campus Drive Parsippany, NJ, 07054 USA Tel: +1-973-377-9000 01/31/08 12:30 PM Scale No: 1 Alibi Record: 4 Scale Id: 123456 User Id: 123456 Project Id: 123456 Project Id: 123456 Name: Library Id: D001 Library Name: HORSE Final Wt: 0.200 kg NET 12.34 kg G 11.11 kg NET 1.22 kg T Level: 10 (Not printed) (Not printed) (Not printed) N: 12 Total: 11.11 kg Avg: 11.11 kg Std: 0.010 kg Min: 11.09 kg

An example of the Alibi List printout is shown below.

Alibi List Alibi Record: 1 01/31/10 12:30 PM Weight: 10.00 kg NET Tare: 2.00 kg T Scale: 1 Alibi Record: 2 01/31/10 12:35 PM Weight: 25.00 kg NET Tare: 5.00 kg T Scale: 1 Alibi Record: 3 01/31/10 12:41 PM Weight: 1.00 kg NET Tare: 0.01 kg T Scale: 1

An example of the Library List printout is shown below.

```
Library List
Library Id: W001
Library Name: CONTAINER 1
Preset Tare: 1.22 kg
Library Id: PC001
Library Name: BOLT, M4x20
Preset Tare: 1.22 kg
APW: 0.1000 kg
Library Id: P001
Library Name: DURUM WHEAT
Preset Tare: 1.22 kg
Ref Wt 0.012 kg
Library Id: C001
Library Name: 200 G SALAD
Preset Tare: 1.22 kg
Under: 1.00 kg
Over: 2.00 kg
Library Id: D001
Library Name: HORSE
Preset Tare: 1.22 kg
Level: 10
```

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6. LEGAL FOR TRADE

When the indicator is used in trade or a legally controlled application it must be set up, verified and sealed in accordance with local weights and measures regulations. It is the responsibility of the purchaser to ensure that all pertinent legal requirements are met.

6.1 Settings

Before verification and sealing, perform the following steps:

- 1. Verify that the menu settings meet the local weights and measures regulations.
- 2. Perform a calibration as explained in Section 3.3.
- 3. Set Legal for Trade to ON in the Setup menu.
- 4. Exit the menu.
- 5. Disconnect power from the indicator and open the housing as explained in Section 2.3.1.
- 6. Set the position of the security switch SW1 to ON as shown in Section 1.2, Figure 1-3, Item 11.
- 7. Close the housing.
- 8. Reconnect power and turn the indicator on.
- 9. During power up, the display will show "LFT MODE ON", confirming that the indicator is ready to be sealed.

NOTE: When Legal for Trade is set to ON and the security switch is set to ON, the following menu settings cannot be changed: Zero Calibration, Span Calibration, Linearity Calibration, GEO, Range, Capacity, Graduation, Power On Unit, Zero Range, Auto Tare, Retain Weight, Legal for Trade, Stable Range, Auto Zero Tracking, Gross Indicator, Modes, Units, Stable Only.

NOTE: For installations that employ the audit trail sealing method, steps 5 to 8 are not required. However, the security switch may be set to ON to safeguard against unintentional changes to configuration and calibration settings.

6.2 Verification

The local weights and measures official or authorized service agent must perform the verification procedure.

6.3 Sealing

6.3.1 Physical Seals

For jurisdictions that use the physical sealing method, the local weights and measures official or authorized service agent must apply a security seal to prevent tampering with the settings. Refer to the illustrations below for sealing methods.

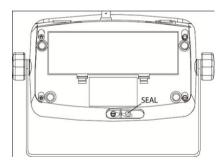


Figure 6-1. T71P Wire Seal

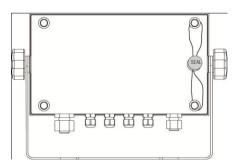


Figure 6-3. T71XW Wire Seal

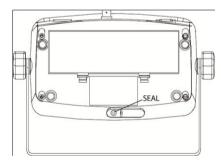


Figure 6-2. T71P Paper Seal

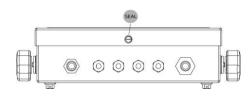


Figure 6-4. T71XW Paper Seal

When the scale base is attached to the indicator using a connector, it is necessary to seal the load cell cable to the indicator in some jurisdictions. The load cell sealing collar P/N 80500737 (Figure 6-5) is available as an accessory.

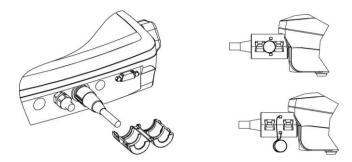


Figure 6-5. T71P Load Cell Sealing Collar

6.3.2 Audit Trail Seal (USA Only)

For jurisdictions that use the audit trail sealing method, the local weights and measures official or authorized service agent must record the current configuration and calibration event counter values at the time of sealing. These values will be compared to values found during a future inspection.

NOTE: A change to an event counter value is equivalent to breaking a physical seal.

The audit trail uses two event counters to record changes to configuration and calibration settings.

- The configuration event counter (CFG) will index by 1 when exiting the menu if one or more of the following settings are changed: Range, Capacity, Graduation, Power On Unit, Zero Range, Auto Tare, Legal for Trade, Stable range, Auto Zero Tracking, Modes, Units, Stable Printing Only. Note that the counter only indexes once, even if several settings are changed. The configuration event counter values range from CFG000 to CFG999. When the value reaches CFG999, the count starts over at CFG000.
- The calibration event counter (CAL) will index by 1 when exiting the menu if a Span Calibration, Linearity Calibration or GEO setting change is made. Note that the counter only indexes once, even if several settings are changed.
 The calibration event counter values range from CALOOO to CAL999. When the value reaches CAL999, the count starts over at CALOOO.

The event counters can be viewed by pressing and holding the MENU button.	·° 0.000 kg
While the button is held, the display will show MENU followed by Audit.	กายบก
Release the button when Audit is displayed to view the audit trail information.	And IF
The audit trail information is displayed in the format CFGxxx and CALxxx.	CF6000
	CALOOO
Then the indicator returns to normal operation.	·° 0.000 kg

TABLE 6-1. GEOGRAPHICAL ADJUSTMENT VALUES

TABLE 0	-1. GLOGK	AFIIIOAL	ADJUSTIM	ENI VALU	LJ	Elov	ration in me	ntoro				
		0	325	650	975	1300	1625	1950	2275	2600	2925	3250
		325		975	1300	1625	1950			2925	3250	
		325	650	975	1300		evation in fe	2275	2600	2925	3250	3575
		0	1060	2130	3200	4260	5330	6400	7460	8530	9600	10660
		1060	2130	3200	4260	5330	6400	7460	8530	9600	10660	11730
Lat	ritude	1000	2130	3200	4200	5550	GEO value	7400	0000	9000	10000	11730
0°00′	5°46′	5	4	4	3	3	2	2	1	1	0	0
5°46′	9°52′	5	5	4	4	3	3	2	2	1	1	0
9°52′	12°44′	6	5	5	4	4	3	3	2	2	1	1
12°44′	15°06′	6	6	5	5	4	4	3	3	2	2	1
15°06′	17°10′	7	6	6	5	5	4	4	3	3	2	2
17°10′	19°02′	7	7	6	6	5	5	4	4	3	3	2
19°02′	20°45′	8	7	7	6	6	5	5	4	4	3	3
20°45′	20°43′	8	8	7	7	6	6	5	5	4	4	3
22°22′	23°54′	9	8	8	7	7	6	6	5	5	4	4
23°54′	25°21′	9	9	8	8	7	7	6	6	5	5	4
25°21′	26°45′	10	9	9	8	8	7	7	6	6	5	5
26°45′	28°06′	10	10	9	9	8	8	7	7	6	6	5
28°06′	29°25′	11	10	10	9	9	8	8	7	7	6	6
29°25′	30°41′	11	11	10	10	9	9	8	8	7	7	7
30°41′	31°56′	12	11	11	10	10	9	9	8	8	7	7
31°56′	33°09′	12	12	11	11	10	10	9	9	8	8	7
33°09′	34°21′	13	12	12	11	11	10	10	9	9	8	8
34°21′	35°31′	13	13	12	12	11	11	10	10	9	9	8
35°31′	36°41′	14	13	13	12	12	11	11	10	10	9	9
36°41′	37°50′	14	14	13	13	12	12	11	11	10	10	9
37°50′	38°58′	15	14	14	13	13	12	12	11	11	10	10
38°58′	40°05′	15	15	14	14	13	13	12	12	11	11	10
40°05′	41°12′	16	15	15	14	14	13	13	12	12	11	11
41°12′	42°19′	16	16	15	15	14	14	13	13	12	12	11
42°19′	43°26′	17	16	16	15	15	14	14	13	13	12	12
43°26′	44°32′	17	17	16	16	15	15	14	14	13	13	12
44°32′	45°38′	18	17	17	16	16	15	15	14	14	13	13
45°38′	46°45′	18	18	17	17	16	16	15	15	14	14	13
46°45′	47°51′	19	18	18	17	17	16	16	15	15	14	14
47°51′	48°58′	19	19	18	18	17	17	16	16	15	15	14
48°58′	50°06′	20	19	19	18	18	17	17	16	16	15	15
50°06′	51°13′	20	20	19	19	18	18	17	17	16	16	15
51°13′	52°22′	21	20	20	19	19	18	18	17	17	16	16
52°22′	53°31′	21	21	20	20	19	19	18	18	17	17	16
53°31′	54°41′	22	21	21	20	20	19	19	18	18	17	17
54°41′	55°52′	22	22	21	21	20	20	19	19	18	18	17
55°52′	57°04′	23	22	22	21	21	20	20	19	19	18	18
57°04′	58°17′	23	23	22	22	21	21	20	20	19	19	18
58°17′	59°32′	24	23	23	22	22	21	21	20	20	19	19
59°32′	60°49′	24	24	23	23	22	22	21	21	20	20	19
60°49′	62°90′	25	24	24	23	23	22	22	21	21	20	20
62°90′	63°30′	25	25	24	24	23	23	22	22	21	21	20
63°30′	64°55′	26	25	25	24	24	23	23	22	22	21	21
64°55′	66°24′	26	26	25	25	24	24	23	23	22	22	21
66°24′	67°57′	27	26	26	25	25	24	24	23	23	22	22
67°57′	69°35′	27	27	26	26	25	25	24	24	23	23	22
69°35′	71°21′	28	27	27	26	26	25	25	24	24	23	23
71°21′	73°16′	28	28	27	27	26	26	25	25	24	24	23
73°16′	75°24′	29	28	28	27	27	26	26	25	25	24	24
75°24′	77°52′	29	29	28	28	27	27	26	26	25	25	24
77°52′	80°56′	30	29	29	28	28	27	27	26	26	25	25
80°56′	85°45′	30	30	29	29	28	28	27	27	26	26	25
85°45′	90°00′	31	30	30	29	29	28	28	27	27	26	26

7. MAINTENANCE

7.1 Cleaning



CAUTION: DISCONNECT THE EQUIPMENT FROM AC MAINS POWER BEFORE CLEANING.

T71P

The housing may be cleaned with a cloth dampened with water and a mild detergent.

Do not use solvents, chemicals, alcohol, ammonia or abrasives to clean the housing or control panel.

T71XW

The housing may be cleaned with a cleaning solution suitable for use on stainless steel. Rinse the housing with water and dry it thoroughly. Do not use solvents, chemicals, alcohol, ammonia or abrasives to clean the control panel.

7.2 Troubleshooting

TABLE 7-1. TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	REMEDY
Will not turn on.	Power cord not plugged in or properly connected.	Check power cord connections. Make sure power cord is plugged into the power outlet.
	Power outlet not supplying electricity.	Check power source.
	Battery discharged (T71P).	Replace batteries (T71P).
	Other failure.	Service required.
Cannot zero the display or	Load on scale exceeds allowable limits.	Remove load on scale.
will not zero when turned on.	Load on scale is not stable.	Wait for load to become stable.
	Load cell damage.	Service required.
Unable to calibrate.	Lock Calibration Menu set to ON.	Set Lock Calibration Menu to OFF. (See Section 3.12)
	LFT Menu set to ON.	Set LFT Menu to OFF.
	Incorrect value for calibration mass.	Use correct calibration mass.
Cannot display weight in desired weighing unit.	Unit not set to ON in Unit Menu.	Enable unit in the Units Menu. (See Section 3.7.)
Cannot change menu settings.	Menu has been locked.	Set selected menu to OFF in the Lock Menu. Lockout Switch on the circuit board may need to be set to the off position.
ERROR 8.1 displayed.	Weight reading exceeds Power On Zero limit.	Make sure scale platform is empty.
		Perform zero calibration.
ERROR 8.2 displayed.	Weight reading below Power On Zero limit.	Install platform on scale.
		Perform zero calibration.
ERROR 8.3 displayed.	Weight reading exceeds Overload limit.	Reduce load on scale.
ERROR 8.4 displayed.	Weight reading below Underload limit.	Install platform on scale.
		Perform zero calibration.
ERROR 8.5 displayed.	Tare out of range	Adjust tare value to be within range

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SYMPTOM	PROBABLE CAUSE	REMEDY
ERROR 8.6 displayed.	The weight value cannot be displayed in the current unit of measure because it exceeds	Reduce load on scale until weight value can be displayed.
	6 digits.	Use a more appropriate unit of measure.
displayed.	Busy message. Displayed during tare setting, zero setting, printing	If this message persists, it usually indicates the reading is not stable. Correct the instability.
NO displayed.	The action is not allowed.	Do not attempt this operation.
Battery symbol flashing.	Batteries are discharged.	Replace batteries (T71P).
		Charge batteries (when optional rechargeable batteries are installed).
CAL E displayed.	Calibration value outside allowable limits.	Use correct calibration weights.
NO LOCK SW displayed.	Attempting to exit the menu with the Legal for Trade setting ON and the security switch OFF.	Set the security switch to the ON position, then exit the menu. (See Section 6.1.)
REF WT ERROR displayed.	Reference Weight too small. The weight on the platform is too small to define a valid reference weight.	Use a greater weight for the sample.

7.3 Service Information

If the troubleshooting section does not resolve your problem, contact an Authorized Ohaus Service Agent. For service assistance in the United States, call toll-free 1-800-526-0659 between 8:00 AM and 5:00 PM Eastern Standard Time. An Ohaus Product Service Specialist will be available to assist you. Outside the USA, pleas visit our website www.ohaus.com to locate the Ohaus office nearest you.

8. TECHNICAL DATA

8.1 Specifications

The technical data is valid under the following ambient conditions:

Temperature: -10°C to 40°C / 14°F to 104°F

Relative humidity: Maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to

50% relative humidity at 40°C.

Altitude: up to 2000m

TABLE 8-1. SPECIFICATIONS

	TABLE 8-1. SPECIFICATIONS					
Indicator Model	T71P	T71XW				
Maximum displayed resolution	1:50,					
Maximum approved resolution	,	1:10,000				
Maximum counting resolution	1:500,000					
Weighing units	Kilogram, Gram, Pound, Ounce,					
Weighing modes	Weighing, Parts Counting, Perce	5 5				
	Dynamic Weighin	,				
Features	Accumulation statistics, Library record					
Display	25 mm high,	2-line LCD				
Under/Accept/Over indicators	Yellow, Gree	n, Red LED				
Backlight	White	LED				
Controls	17 button mem	nbrane switch				
Ingress protection		IP66				
Load cell excitation voltage	5 VI	OC .				
Load cell drive	Up to 8 x 350 c	ohm load cells				
Load cell input sensitivity	Up to 3	mV/V				
Stabilization time	Within 2	seconds				
Auto zero tracking	Off, 0.5 d,	1 d or 3 d				
Zeroing range	2% or 100%	of capacity				
Span calibration	1 kg or 1 lb	to capacity				
Housing dimensions (W x D x H)	260 x 71 x 168 mm	262 x 76 x 149 mm				
, ,	10.2 x 2.7 x 6.6 in	10.3 x 3.0 x 5.8 in				
Net weight	1.5 kg	3.5 kg				
•	3.3 lb	7.7 lb				
Shipping weight	2.3 kg	4.3 kg				
	5 lb	9.5 lb				
Operating temperature range	-10 °C to	o 40 °C				
	14 °F to	104 °F				
Mains power	100-240 VAC / 50-60 H	z internal power supply				
Overvoltage category	II					
Pollution degree	2					
Battery power	6 C-size (LR14) batteries (not supplied)	Rechargeable battery pack (option)				
• •	Rechargeable battery pack (option)	,, ,,				
Interfaces	RS232 (ir	ncluded)				
	External Inpu	•				
	Second RS23					
	RS485/RS42					

EN-70 7000 Series Indicators

8.2 Accessories and Options

TABLE 8-2. ACCESSORIES

DESCRIPTION	PART NUMBER
Printer STP103, 120VAC US plug	80251992
Printer STP103, 230VAC EU plug	80251993
Printer STP103, 230VAC GB plug	80251994
Printer CBM910, 100VAC JP plug	80252041
Printer CBM910 120VAC US plug	80252042
Printer CBM910 230VAC EU plug	80252043
Interface Cable, Printer CBM910, T71P	80252571
Interface Cable, Printer CBM910, T71XW	80252574
Interface Cable, Printer STP103, T71P	80252581
Interface Cable, Printer STP103, T71XW	80252584
Interface Cable, PC 25 pin, T71P	80500524
Interface Cable, PC 9 pin, T71P	80500525
Interface Cable, PC 9 pin, T71XW	80500552
Interface Cable, PC 25 pin, T71XW	80500553
Load Cell Cable Adapter	80500736
Load Cell Sealing Collar	80500737

TABLE 8-3. OPTIONS

DESCRIPTION	PART NUMBER
Foot Switch	71173378
Alibi Memory Kit	80500503
AC Relay Kit	80500720
Base Mount Kit (T71P only)	80500722
Column Mount Kit, 35 cm painted steel	80500723
Column Mount Kit, 68 cm painted steel	80500724
Column Mount Kit, 35 cm stainless steel	80500725
Column Mount Kit, 68 cm stainless steel	80500726
DC Relay Kit	80500727
Rechargeable Battery Kit	80500729
RS485/RS422 Interface Kit	80500731
RS232 Interface Kit	80500733



Any accessories or options that require the indicator housing to be opened must be installed by a qualified technician.

8.3 Drawings and Dimensions

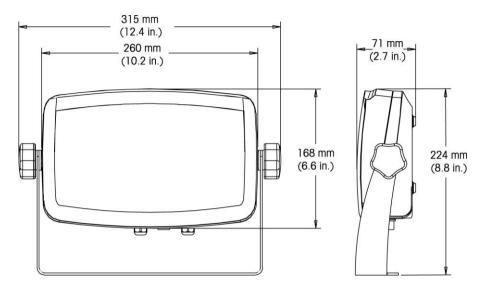


Figure 8-1. T71P Dimensions

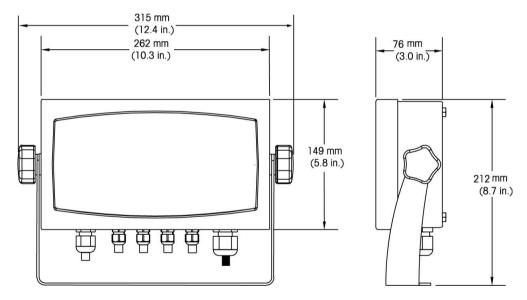


Figure 8-2. T71XW Dimensions

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8.4 Compliance

Compliance to the following standards is indicated by the corresponding marking on the product.

Marking	Standard
CE	This product conforms to the EMC Directive 2004/108/EC, the Low Voltage Directive 2006/95/EC and the Non-automatic Weighing Instrument Directive 2009/23/EC. The complete Declaration of Conformity is available online at www.ohaus.com.
c UL us	UL60950-1:2003
C	AS/NZS4251.1, AS/NZS4252.1

FCC Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Industry Canada Note

This Class B digital apparatus complies with Canadian ICES-003.

ISO 9001 Registration

In 1994, Ohaus Corporation, USA, was awarded a certificate of registration to ISO 9001 by Bureau Veritus Quality International (BVQI), confirming that the Ohaus quality management system is compliant with the ISO 9001 standard's requirements. On May 21, 2009, Ohaus Corporation, USA, was re-registered to the ISO 9001:2008 standard.

Important Notice for verified weighing instruments





Weighing Instruments verified at the place of manufacture bear one of the preceding marks on the packing label and the green 'M' (metrology) sticker on the descriptive data plate.

They may be put into service immediately.





Weighing Instruments to be verified in two stages have no green 'M' (metrology) on the descriptive data plate and bear one of the preceding identification marks on the packing label. The second stage of the initial verification must be carried out by an authorized and certified service organization established within the European Community or by the National Notified Body.

The first stage of the initial verification has been carried out at the manufacturer's work. It comprises all tests according to the adopted European Standard EN 45501:1992, paragraph 8.2.2.

If national regulations limit the validity period of the verification, the user of the weighing instrument must strictly observe the re-verification period and inform the respective Weights and Measures authority.



Disposal

In conformance with the European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE) this device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements.

The Batteries Directive 2006/66/EC introduces new requirements from September 2008 on removability of batteries from waste equipment in EU Member States. To comply with this Directive, this device has been designed for safe removal of the batteries at end-of-life by a waste treatment facility.

Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.

If you have any questions, please contact the responsible authority or the distributor from which you purchased this device.

Should this device be passed on to other parties (for private or professional use), the content of this regulation must also be related.

For disposal instructions in Europe, refer to www.ohaus.com, choose your country then search for WEEE.

Thank you for your contribution to environmental protection.

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LIMITED WARRANTY

Ohaus products are warranted against defects in materials and workmanship from the date of delivery through the duration of the warranty period. During the warranty period Ohaus will repair, or, at its option, replace any component(s) that proves to be defective at no charge, provided that the product is returned, freight prepaid, to Ohaus.

This warranty does not apply if the product has been damaged by accident or misuse, exposed to radioactive or corrosive materials, has foreign material penetrating to the inside of the product, or as a result of service or modification by other than Ohaus. In lieu of a properly returned warranty registration card, the warranty period shall begin on the date of shipment to the authorized dealer. No other express or implied warranty is given by Ohaus Corporation. Ohaus Corporation shall not be liable for any consequential damages.

As warranty legislation differs from state to state and country to country, please contact Ohaus or your local Ohaus dealer for further details.

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