



Recent software updates have included additional functionality to the PT600R.

These added features apply only to these indicators with version 4.00 or above software. The following describes changes to the standard PT Manuals.

Replace all of the Setup Menus with the following and use for indicator setup.

## 7. Setup Menus

### 7.1. GEN.OPT (General options)

#### 7.1.1. LANG (Operator language)

Path	Description
GEN.OPT <b>LANG</b>	Sets the operator language.
<b>LANG Values</b> <OPT>	<b>NB:</b> Setup menus are fixed in English.
<ul style="list-style-type: none"> <li>• English (Default)</li> <li>• German</li> <li>• Dutch</li> <li>• French</li> <li>• Polish</li> <li>• Italian</li> <li>• Spanish</li> <li>• Czech</li> </ul>	

#### 7.1.2. P.T.SCP (Preset Tare Scope)

Path	Description
GEN.OPT <b>P.T.SCP</b>	Sets if the preset tare value is stored per product or globally
<b>P.T.SCP Values</b> <OPT>	
<ul style="list-style-type: none"> <li>• PROD (Default)</li> <li>• GLOBAL</li> </ul>	

#### 7.1.3. DATE.F (Date format)

Path	Description
GEN.OPT <b>DATE.F</b>	Sets the date format
<b>DATE.F Values</b> <OPT>	
<ul style="list-style-type: none"> <li>• DD.MM.YY (Default)</li> <li>• DD.MM.YYYY</li> <li>• MM.DD.YY</li> <li>• MM.DD.YYYY</li> <li>• YY.MM.DD</li> <li>• YYYY.MM.DD</li> </ul>	

#### 7.1.4. PCODE (Security passcodes)

Path	Description
GEN.OPT PCODE <b>SAFE.PC</b> <b>FULL.PC (*)</b> <b>OP.PC</b>  (*) Available in FULL SETUP only	Sets the instrument passcodes. The 3 levels of passcode are: <ul style="list-style-type: none"> <li>• Full passcode (FULL.PC): Controls access to full setup menus. All settings (including trade critical settings) can be altered from full setup. The full passcode will also give access to safe or operator functions.</li> <li>• Safe passcode (SAFE.PC): Controls access to safe setup menus. No trade critical settings can be altered from safe setup. The safe passcode will also give access to operator functions.</li> <li>• Operator passcode (OP.PC): Controls access to various operator functions.</li> </ul>
<b>PCODE Values</b> <NUM>  0 .. 999999 Default: 0  <b>NB:</b> A passcode value of 0 deactivates the passcode.	

#### 7.1.5. KEY.LOC (Key Function Access Control)

Path	Description
GEN.OPT KEY.LOC <b>P(*)</b> <b>ZERO</b> <b>TARE</b> <b>GR_NT</b> <b>F1</b> <b>F2</b> <b>F3</b> <b>CLOCK</b> <b>VIEW</b> <b>REPORT</b> <b>TOTAL</b> <b>ID</b> <b>TARGET</b> <b>ACC</b> <b>PR.MOD</b> <b>PR.SEL</b> <b>NUM.PAD</b> <b>ALIBI</b>	Access to each of the operator functions can be configured separately.  The options are: AVAIL: function always available OPER.PC: requires a valid Operator Passcode SAFE.PC: requires a valid Safe Passcode LOCKED: function never available  Functions protected with a 'Safe' passcode prompt for the passcode every time.  Entering the Operator Passcode unlocks all operator protected functions so the operator is not continually prompted for the passcode. In order to lock the instrument again press the '.' key for two seconds (function 'Lock').
<b>KEY.LOC Values</b> <OPT>  <ul style="list-style-type: none"> <li>• AVAIL (Default)</li> <li>• OPER.PC</li> <li>• SAFE.PC</li> <li>• LOCKED</li> </ul> (*) AVAIL & LOCKED only are available for POWER.	

7.1.6. DISP (Display options)

Path	Description
GEN.OPT DISP <b>B.LIGHT</b> <b>FREQ</b> <b>AUX.DSP</b> <b>VIEW</b>	These settings control the operation of the display. <b>B.LIGHT</b> (Backlight operation) can be set on or off. <b>FREQ</b> (Display update frequency) sets how often the display is updated <b>AUX.DSP</b> (Auxiliary Display) can be set to OFF, TIME to show the current instrument time or NUM.ITEMS to show the number of items added to totals.
<b>B.LIGHT Values &lt;OPT&gt;</b>	
ON <sup>(Default)</sup> , OFF	
<b>FREQ Values &lt;OPT&gt;</b>	
10Hz <sup>(Default)</sup> , 5Hz, 3.3Hz, 2Hz, 1Hz	
<b>AUX.DSP Values &lt;OPT&gt;</b>	
OFF <sup>(Default)</sup> , TIME, NUM.ITEMS	
<b>VIEW Values &lt;OPT&gt;</b>	
PRODUCT <sup>(Default)</sup> , COMMS, DUAL	<b>VIEW</b> (Display Layout) selects the default VIEW when the instrument powers up. The operator can select alternative views by pressing the '2' key for 2 seconds (function 'View'). Options: PRODUCT: display product information COMMS: The entire display is controllable via the comms, DUAL: Primary and Secondary displays are used for scale information. (E.g. Net + Tare weight or Weight + Pieces).

7.1.7. ID.NAME (User Defined Strings)

Path	Description
GEN.OPT ID.NAME <b>NAME.1</b> <b>NAME.2</b> <b>NAME.3</b> <b>NAME.4</b> <b>NAME.5</b>	There are five User Strings available to the operator when the '5' key is pressed for 2 seconds (function 'ID'). NAME.1, NAME.2, NAME.3, NAME.4 and NAME.5 specify the actual prompts displayed for the operator. The values that the operator enters are used for printing and other application functions.
<b>Values &lt;STR&gt;</b>	
<i>Maximum 6 characters.</i>	(E.g. to allow the operator to enter a customer ID, NAME.1 could be set to 'CUST'.) To remove a User String from the operator menu give it an empty name.

### 7.1.8. USR.NUM (User Defined Numbers)

Path	Description
GEN.OPT USR.NUM <b>NAME.1</b> <b>NAME.2</b> <b>NAME.3</b> <b>NAME.4</b> <b>NAME.5</b>	There are five User Numbers available to the operator when the '5' key is pressed for 2 seconds (function 'ID').  NAME.1, NAME.2, NAME.3, NAME.4 and NAME.5 specify the actual prompts displayed for the operator. User number 4 and 5 have the decimal point and units set in the scale settings.
<b>Values</b> <STR>	
<i>Maximum 6 characters.</i>	To remove a User Number from the operator menu give it an empty name.

### 7.1.9. POWER (Power options)

Path	Description
GEN.OPT POWER <b>AUT.OFF</b> <b>START</b> <b>TOP</b> <b>BOTTOM</b>	<b>AUT.OFF</b> (Auto-off delay)  Sets the automatic power off setting. The instrument will switch off after set minutes of inactivity. NEVER disables the auto power off feature.
<b>AUT.OFF Values</b> <OPT>	<b>START</b> (Pause at Start-up)
<ul style="list-style-type: none"> <li>• NEVER (Default)</li> <li>• 1 min</li> <li>• 5 min</li> <li>• 10 min</li> <li>• 60 min</li> </ul>	If USER the START function forces the instrument to pause on power up and prompt the operator to continue. This ensures that restarting the instrument does not go unnoticed. If COMMS the instrument will display the TOP and BOTTOM strings and wait for a command from the comms to continue. If this needs to manually be skipped press the power and cancel keys at the same time, doing so will trigger the module error to show the comms did not start up as expected.
<b>START Values</b> <OPT>	
NONE (Default), USER, COMMS	
<b>TOP Values</b> <STR>	
<i>Maximum 6 characters</i>	<b>TOP</b>
<b>BOTTOM Values</b> <STR>	
<i>Maximum 9 characters</i>	String to be displayed on the top left display when START is set to COMMS.  <b>BOTTOM</b>  String to be displayed on the bottom left display when START is set to COMMS.

**7.1.10. STR.EDT (String Edit Mode)**

Path	Description
GEN.OPT STR.EDT	Sets the mode that the string editor will start in.
<b>STR.EDT Values</b> <OPT>	
<ul style="list-style-type: none"> <li>• STRING (Default)</li> <li>• NUM</li> <li>• AUTO</li> </ul>	

**7.1.11. USR.DEF (Set all non-calibration settings to defaults)**

Path	Description
GEN.OPT USER.DEF	Sets all general instrument settings to defaults.
<b>Values</b>	This will not affect settings in the SCALE menu which includes all calibration and configuration settings.
DEFAULT? <OK> CONFIRM? <OK>	

**7.2. H.WARE (Hardware Configuration & Test)**

**7.2.1. LC.HW**

Path	Description
H.WARE LC.HW MVV OL.CNT OL.CLR	<p><b>MVV</b> View Loadcell mV/V reading.</p> <p><b>OL.CNT</b> (Overload count) Shows the number of times the instrument has been overloaded or underloaded by at least 50% of fullscale.</p> <p><b>OL.CLR</b> (Overload clear) Clear the overload counter.</p>

7.2.2. SER1.HW, SER2.HW

Path	Description
H.WARE	<b>BAUD</b> (Baud Rate) Sets the baud rate for the port.
SER1.HW	<b>PARITY</b> Sets the parity for the port.
<b>BAUD</b>	<b>DATA</b> (Data bits) Sets the number of data bits for the port.
<b>PARITY</b>	<b>STOP</b> (Stop bits) Sets the number of stop bits for the port.
<b>DATA</b>	<b>DTR</b> (DTR usage) Use the DTR line with RS232 printing.
<b>STOP</b>	<b>TERM</b> (Termination Resistors) Use termination resistors with RS485.
<b>DTR</b>	<b>RING</b> (Ring network) Enable ring network. Only available on SER2 and requires M42xx software version 1.01+.
<b>TERM</b>	
<b>RING</b>	
<b>BAUD Values</b> <OPT>	
_1200_ , _2400_ , _4800_ , _9600_ (Default) , _19200_ , _57600_	
<b>PARITY Values</b> <OPT>	
NONE (Default) , EVEN, ODD	
<b>DATA Values</b> <OPT>	
_8_ (Default) , _7_	
<b>STOP Values</b> <OPT>	
_1_ (Default) , _2_	
<b>DTR Values</b> <OPT>	
OFF (Default) , ON	
<b>TERM Values</b> <OPT>	
OFF (Default) , ON	
<b>RING Values</b> <OPT>	
OFF (Default) , ON	

7.2.4. IO.HW

Path	Description
H.WARE IO.HW <b>FRC.OUT</b> <b>TST.IN</b> DB.1.8 <b>DBNC.1</b> : <b>DBNC.8</b> DB.9.16 <b>DBNC.9</b> : <b>DBNC.16</b> DB.17.24 <b>DBNC.17</b> : <b>DBNC.24</b> DB.25.32 <b>DBNC.25</b> : <b>DBNC.32</b>	<p><b>FRC.OUT</b> (Force Outputs)</p> <p>Use this when testing and fault finding to force the IO on and off. Use the UP and DOWN keys to select the output. Use the +/- key to switch the output on and off.</p> <p><b>TST.IN</b> (Test Inputs)</p> <p>Use this when testing and fault finding to check the status of IO when used as inputs. Inputs are listed for each module in order of lowest to highest IO number. '1' means the input is active, '0' means the input is inactive. Use the UP and DOWN keys to select the module to view.</p> <p><b>DBNC</b> (Debounce)</p> <p>This sets the amount of debouncing for inputs. It is set in milliseconds [ms].</p>
<b>DBNC Values</b> <NUM>	
1..250 ms Default: 50 ms	

7.2.5. ANL.HW

Path	Description
H.WARE ANL.HW <b>TYPE</b> <b>CLIP</b> <b>FRC.OUT</b> <b>ANL.CAL</b> <b>ADJ.LO</b> <b>ADJ.HI</b>	<p><b>TYPE</b> (Analog Output Type)</p> <p>Sets the analog output to current (4-20mA) or voltage (0-10V) mode.</p> <p><b>CLIP</b> (Analog Output Clip Enable)</p> <p>When clipping is on, the output is restricted to 4-20mA or 0-10V. When clipping is off, the output can go at least 3mA or 0.5V beyond these limits.</p> <p><b>FRC.OUT</b> (Force Analog Output)</p> <p>Sets the number of data bits for the port.</p> <p><b>ADJ.LO</b>(Calibrate Analog Output)</p> <p>Calibrate 4mA or 0V analog output. Use the UP and DOWN keys to adjust the calibration.</p> <p><b>ADJ.HI</b> (Calibrate Analog Output)</p> <p>Adjust 20mA or 10V analog output. Use the UP and DOWN keys to adjust the calibration.</p>
<b>TYPE Values</b> <OPT>	
Current <sup>(Default)</sup> , Volt	
<b>CLIP Values</b> <OPT>	
NO <sup>(Default)</sup> , YES	

7.2.6. DSD.HW

Path	Description
H.WARE DSD.HW <b>AUTO.C</b> <b>DSD.STR</b>	<b>AUTO.C</b> (Auto Clear)  Sets whether the DSD will automatically write over the oldest records when it becomes full.
<b>AUTO.C Values</b> <OPT>	<b>DSD.STR</b> (DSD String)
OFF, ON <small>(Default)</small>	Custom string to be stored along with the traceable data when the DSD is written. This accepts all print tokens.
<b>DSD.STR Values</b> <STR>	
<i>Maximum 20 characters.</i>	



### 7.3. SCALE (Loadcell options and calibration)

#### 7.3.1. BUILD (Scale parameters)

Path	Description
SCALE	Scale Base configuration settings:
BUILD	
TYPE <sup>(*)</sup>	<b>TYPE:</b> Range type. Options are:
CABLE <sup>(*)</sup>	<ul style="list-style-type: none"> <li>• SINGLE : Single range</li> <li>• DUAL.I: Dual interval</li> <li>• DUAL.R: Dual range</li> </ul>
DP <sup>(*)</sup>	<b>CABLE:</b> 6-wire or 4-wire cable termination:
CAP1 <sup>(*)</sup>	<ul style="list-style-type: none"> <li>• 6-wire: SENSE lines are connected to the instrument.</li> <li>• 4-wire: Internal connection between Excitation and SENSE lines is active.</li> </ul>
E1 <sup>(*)</sup>	<b>DP:</b> Set the decimal point position.
CAP2 <sup>(*)</sup>	<b>CAP1:</b> Sets the fullscale capacity for the scale. If using multiple interval/range, this sets the fullscale capacity of the lowest range/interval.
E2 <sup>(*)</sup>	<b>E1:</b> Sets the count-by (or resolution) of the scale. If using multiple interval/range, this sets the count-by (or resolution) of the lowest range/interval.
UNITS <sup>(*)</sup>	<b>CAP2:</b> If using multiple interval/range, this sets the fullscale capacity of the highest range/interval.
HI.RES <sup>(*)</sup>	<b>E2:</b> If using multiple interval/range, this sets the count-by (or resolution) of the highest range/interval.
<b>TYPE Values</b> <sup>(*)</sup> <OPT>	
SINGLE (Default) DUAL.I, DUAL.R	
<b>CABLE Values</b> <sup>(*)</sup> <OPT>	
6 WIRE (Default), 4 WIRE	
<b>DP Values</b> <sup>(*)</sup> <OPT>	
000000 (Default)    000.000 00000.0            00.0000 0000.00            0.00000	<b>UNITS:</b> Sets the weighing units.
<b>CAP1 &amp; CAP2 Values</b> <sup>(*)</sup> <NUM>	<b>NB:</b> For Options:
100 ..999999 Default: 3000	<ul style="list-style-type: none"> <li>• None: Units are left blank.</li> <li>• ARROW.U: Use the top arrow. Units will be printed onto the instrument in the correct location.</li> </ul>
<b>E1 &amp; E2 Values</b> <sup>(*)</sup> <OPT>	<b>HI.RES:</b> Sets the scale to high resolution (x10) mode.
1 (Default)            20 2                        50 5                        100 10	
<b>UNITS Values</b> <sup>(*)</sup> <OPT>	
None (Default)        g kg                        Oz lb                        N t                         ARROW U	
<b>HI.RES Values</b> <sup>(*)</sup> <OPT>	
OFF (Default), ON	
<b>MAX.TLT Values</b> <sup>(*)</sup> <NUM>	
0 .. 15 Default: 10	⊗: This item is trade critical and will affect the calibration counter(s) if changed.

**7.3.2. OPTION (Scale options)**

Path	Description
SCALE OPTION <b>USE</b> <sup>(⊗)Ⓢ</sup> <b>FILTER</b> <sup>(⊗)Ⓢ</sup> <b>MOTION</b> <sup>(⊗)Ⓢ</sup> <b>Z.RANGE</b> <sup>(⊗)Ⓢ</sup> <b>Z.TRACK</b> <sup>(⊗)Ⓢ</sup> <b>Z.INIT</b> <sup>(⊗)Ⓢ</sup> <b>Z.BAND</b> <sup>(⊗)Ⓢ</sup> <b>EXT.EX</b> <sup>(⊗)Ⓢ</sup> <b>R.ENTRY</b> <b>TOT.OPT</b>	<b>USE</b> (Trade Use): This setting affects the operation of trade functions. Options are: <ul style="list-style-type: none"> <li>• INDUST: Industrial (no standard)</li> <li>• OIML: OIML trade mode</li> <li>• NTEP: NTEP trade mode</li> </ul> <b>FILTER</b> : Set the number of seconds of digital filtering. <b>MOTION</b> : Sets the motion detection sensitivity. This setting is given as <b>xd – yt</b> where weight change of more than <b>x</b> divisions in <b>y</b> seconds will trigger motion. <b>Z.RANGE</b> (Range of Zero): Sets the range over which the indicator can zero the scale. Options are in % of fullscale. <b>Z.TRAC</b> (Zero Tracking): Sets the rate of automatic zero tracking. Slow is 2Hz, Fast is 10Hz. <b>Z.INIT</b> (Zero on Startup): Enables the zero-on-start-up feature. When enabled, a zero will be performed as part of the instrument start-up procedure if the scale is within the zero range. <b>Z.BAND</b> (Zero Deadband): Sets the weight range around zero which will be considered zero for application purposes. <b>EXT.EX</b> (External Excitation): If using an external supply for loadcell excitation this setting enables additional background calibration services. Under normal conditions this feature is not required. <b>R.ENTRY</b> (Rear Entry): Full access via the rear setup button only. This option is only available when the rear setup button has been used to access the menu system <b>TOT.OPT</b> (Totalising Option): Type of weight used with totalising. Gross or net weight should be used if gross or net weights only can be added into a single total.
<b>USE Values</b> <sup>(⊗)Ⓢ</sup> <OPT>	
INDUST <sup>(Default)</sup> , OIML, NTEP	
<b>FILTER Values</b> <sup>(⊗)Ⓢ</sup> <NUM>	
0.01s..30.00s <i>Default: 1.0s</i>	
<b>MOTION Values</b> <sup>(⊗)Ⓢ</sup> <OPT>	
OFF, 1.0d – 1.0t <sup>(Default)</sup> 0.5d – 1.0t 2.0d – 1.0t 5.0d – 1.0t 0.5d – 0.5t	1.0d – 0.5t 2.0d – 0.5t 5.0d – 0.5t 0.5d – 0.2t 1.0d – 0.2t 2.0d – 0.2t 5.0d – 0.2t
<b>Z.RANGE Values</b> <sup>(⊗)Ⓢ</sup> <OPT>	
-2 .. 2 <sup>(Default)</sup> , -1 .. 3, -10 .. 10, -20 .. 20	
<b>Z.TRACK Values</b> <sup>(⊗)Ⓢ</sup> <OPT>	
Off <sup>(Default)</sup> , Slow, Fast	
<b>Z.INIT Values</b> <sup>(⊗)Ⓢ</sup> <OPT>	
Off <sup>(Default)</sup> , On	
<b>Z.BAND Values</b> <sup>(⊗)Ⓢ</sup> <NUM>	
0 – fullscale <i>Default: 0</i>	
<b>EXT.EX Values</b> <sup>(⊗)Ⓢ</sup> <OPT>	
Off <sup>(Default)</sup> , On	
<b>R.ENTRY Values</b> <OPT>	
Off <sup>(Default)</sup> , On	
<b>TOT.OPT Values</b> <OPT>	
Disp <sup>(Default)</sup> , Gross, Net	

⊗: This item is trade critical and will affect the calibration counter(s) if changed.

### 7.3.3. CAL (Scale calibration)

Path	Description
SCALE	Calibrate Scale
CAL	
<b>ZERO</b> <sup>(⊗)Ⓜ</sup>	<b>ZERO</b> : Perform a zero calibration.
<b>SPAN</b> <sup>(⊗)Ⓜ</sup>	<b>SPAN</b> : Perform a span calibration. A zero calibration should be done before doing a span calibration.
<b>ED.LIN</b> <sup>(⊗)Ⓜ</sup>	<b>ED.LIN</b> : Add or Modify linearization points.
<b>CLR.LIN</b> <sup>(⊗)Ⓜ</sup>	<b>CLR.LIN</b> : Clear unwanted linearization points.
<b>DIR.ZERO</b> <sup>(⊗)Ⓜ</sup>	<b>DIR.ZER</b> (Direct mV/V Zero Calibration): Enter signal strength (in mV/V) of zero calibration directly.
<b>DIR.SPN</b> <sup>(⊗)Ⓜ</sup>	<b>DIR.SPN</b> (direct mV/V span Calibration): Enter the signal strength (in mV/V) of fullscale directly. No test weights required.
<b>LC.ZERO</b>	
<b>DEF.CAL</b> <sup>(⊗)Ⓜ</sup>	<b>DEF.CAL</b> (Default Calibration): Restore instrument to default factory calibration and reset all items in the SCALE menu to defaults.

⊗: This item is trade critical and will affect the calibration counter(s) if changed.

### 7.3.4. QA (QA alarm)

Path	Description
SCALE:	Configure the quality assurance feature.
QA	If active the instrument displays a 'QA DUE' warning after the date limit has expired.
<b>QA.OPT</b> <sup>(⊗)Ⓜ</sup>	<b>QA.OPT</b> : Turn QA feature on or off.
<b>QA.YEAR</b> <sup>(⊗)Ⓜ</sup>	<b>QA.YEAR, QA.MONTH, QA.DAY</b> : Enter QA expiry date.
<b>QA.MONTH</b> <sup>(⊗)Ⓜ</sup>	
<b>QA.DAY</b> <sup>(⊗)Ⓜ</sup>	
<b>QA.OPT Values</b> <sup>(⊗)Ⓜ</sup> <OPT>	⊗: This item is trade critical and will affect the calibration counter(s) if changed.
Off (Default), On	
<b>QA.DATE Values</b> <sup>(⊗)Ⓜ</sup> <NUM>	
2000-01-01 To 2099-12-31	

### 7.4. FUNC (Special functions)

The instrument supports up to eight special functions. Enter the number of special functions to use and configure each one according to the function type required. Most functions need only to be associated with a key or input to function but some have additional configuration settings as detailed below.

**7.4.1. NUM (Number of special functions)**

Path	Description
FUNC NUM	Sets the number of special functions.
<b>NUM Values &lt;OPT&gt;</b>	
-1- .. -8-	

**7.4.2. SFn: TYPE (Function Types)**

Path	Description
FUNC SF <sub>n</sub> TYPE	Sets the function type.  Options are: <ul style="list-style-type: none"> <li>• <b>PRINT</b>: Trigger a print out</li> <li>• <b>SINGLE</b>: Trigger a single serial weight transmission</li> <li>• <b>TEST</b>: Display test</li> <li>• <b>COUNT</b>: Piece Counting using a Sample</li> <li>• <b>PIECE</b>: Piece Counting using entered Piece Weight</li> <li>• <b>UNITS</b>: Unit switching, lb/kg or Custom</li> <li>• <b>HOLD</b>: Manual hold</li> <li>• <b>PK.HOLD</b>: Peak hold</li> <li>• <b>PRD.SEL</b>: Product Select</li> <li>• <b>REM.KEY</b>: Remote Key operation</li> <li>• <b>BLANK</b>: Blanking input</li> <li>• <b>THUMB</b>: Thumb-wheel Product Selection</li> <li>• <b>REPORT</b>: Print a report</li> <li>• <b>HI.RES</b>: High Resolution mode toggle</li> <li>• <b>SC.EXIT</b>: Trigger scale exit setpoint</li> <li>• <b>SEMI.P.T</b>: Semi-auto Preset Tare</li> <li>• <b>A.TARE</b>: Auto tare</li> </ul>
<b>TYPE Values &lt;OPT&gt;</b>	
<ul style="list-style-type: none"> <li>• NONE (Default)</li> <li>• PRINT</li> <li>• SINGLE</li> <li>• TEST</li> <li>• COUNT</li> <li>• PIECE</li> <li>• UNITS</li> <li>• HOLD</li> <li>• PK.HOLD</li> <li>• PRD.SEL</li> <li>• REM.KEY</li> <li>• BLANK</li> <li>• THUMB</li> <li>• REPORT</li> <li>• HI.RES</li> <li>• SC.EXIT</li> <li>• SEMI.P.T</li> <li>• A.TARE</li> </ul>	

**7.4.3. SFn: KEY (Function Key / Remote Input )**

Path	Description
FUNC SF <sub>n</sub> KEY	Select front panel key or external input to trigger the special function. All functions that respond to input events have a KEY setting.
<b>KEY Values &lt;OPT&gt;</b>	
None (Default), F1 .. F3 IO1 .. IO32	

**7.4.4. SFn: PRINT (Printing Functions)**

Path	Description						
FUNC SF <sub>n</sub> <b>TYPE</b> : PRINT <b>KEY</b> <b>LONG.PR</b> <b>PRT.OUT</b> <b>TOTAL</b> <b>CLR.ASK</b> <b>AUTO</b> <b>IL.TYPE</b> <b>I.LOCK</b>	Configuration of the PRINT Special Function.  <b>KEY</b> : Select PRINT key using front function key or external input.  <b>LONG.PR</b> (LONG PRESS): Selects if long press functionality should be enabled.  <b>PRT.OUT</b> (PRINT OUT): Selects the printout to print. Printouts are configured in the PRINT menu.  <b>TOTAL</b> : Sets whether the print key affects the product totals.						
<b>KEY Values</b> <OPT>	Options are:						
None <sup>(Default)</sup> , F1 .. F3, IO1 .. IO32	<ul style="list-style-type: none"> <li>• ADD: Add to totals</li> <li>• UNDO: Undo last add to totals</li> <li>• CLR.ALL: Clear all totals</li> <li>• CLR.SESS: Clear session total</li> </ul>						
<b>LONG.PR Values</b> <OPT>							
ENABLE <sup>(Default)</sup> , DISABLE	<b>CLR.ASK</b> (Prompt for Clear): Sets whether the operator is prompted to confirm the totals clear.						
<b>PRT.OUT Values</b> <OPT>	<b>AUTO</b> (Automatic printing): Sets whether printing occurs automatically.						
None <sup>(Default)</sup> , PRINT.1 .. PRINT.2	<b>IL.TYPE</b> (Interlock Type): Sets the type of printing interlock to be used. Options are:						
<b>TOTAL Values</b> <OPT>	<ul style="list-style-type: none"> <li>• MOTION: Printing is enabled every time the scale becomes stable.</li> <li>• I.LOCK: Printing is enabled when the weight is stable after a weight movement larger than the interlock weight.</li> <li>• RET.Z: Printing is enabled after the scale has returned to zero and is stable at a reading other than zero.</li> </ul>						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">NONE <sup>(Default)</sup></td> <td style="width: 50%; text-align: center;">UNDO</td> </tr> <tr> <td style="text-align: center;">ADD</td> <td style="text-align: center;">CLR.ALL</td> </tr> <tr> <td></td> <td style="text-align: center;">CLR.SESS</td> </tr> </table>	NONE <sup>(Default)</sup>	UNDO	ADD	CLR.ALL		CLR.SESS	
NONE <sup>(Default)</sup>	UNDO						
ADD	CLR.ALL						
	CLR.SESS						
<b>CLR.ASK Values</b> <OPT>							
NO <sup>(Default)</sup> , YES							
<b>AUTO Values</b> <OPT>							
NO <sup>(Default)</sup> , YES							
<b>IL.TYPE Values</b> <OPT>	<b>I.LOCK</b> (Interlock): Sets the interlock weight.						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">NONE <sup>(Default)</sup></td> <td style="width: 50%; text-align: center;">MOTION</td> </tr> <tr> <td></td> <td style="text-align: center;">I.LOCK</td> </tr> <tr> <td></td> <td style="text-align: center;">RET.Z</td> </tr> </table>	NONE <sup>(Default)</sup>	MOTION		I.LOCK		RET.Z	
NONE <sup>(Default)</sup>	MOTION						
	I.LOCK						
	RET.Z						
<b>I.LOCK Values</b> <NUM>							
0 .. Fullscale							

### 7.4.5. SFn: SINGLE (Single Serial Output Functions)

Path	Description
FUNC SF <sub>n</sub> <b>TYPE : SINGLE</b> <b>KEY</b> <b>AUT.OUT</b>	Single serial outputs are similar to printing but do not support any interlocking or totalising functions. <b>KEY:</b> Function key or external input to use. <b>AUT.OUT:</b> Choose which Auto Output Serial service to trigger. The Auto Output TYPE should be set to SINGLE.
<b>KEY Values &lt;OPT&gt;</b>	
None <sup>(Default)</sup> , F1 .. F3, IO1 .. IO32	
<b>AUT.OUT Values &lt;OPT&gt;</b>	
AUTO.1 <sup>(Default)</sup> , AUTO.2	

### 7.4.6. SFn: BLANK (Blanking Functions)

Path	Description
FUNC SF <sub>n</sub> <b>TYPE : BLANK</b> <b>KEY</b> <b>BLANK</b>	Blanking functions enable the detection of external inputs to be used to block instrument operation by blanking the screen and blocking key functions. Typical applications are for tilt sensing. <b>KEY:</b> External input to use. <b>BLANK:</b> Set display blanking style. Options are: <ul style="list-style-type: none"> <li>• DASH: Fill instrument display with '-' characters.</li> <li>• BLANK: completely blank instrument display.</li> </ul>
<b>KEY Values &lt;OPT&gt;</b>	
None <sup>(Default)</sup> , F1 .. F3, IO1 .. IO32	
<b>BLANK Values &lt;OPT&gt;</b>	
DASH <sup>(Default)</sup> , BLANK	

**7.4.7. SFn: COUNT, SFn: PIECE (Counting Functions)**

Path	Description
FUNC SFn <b>TYPE</b> : COUNT PIECE <b>KEY</b> <b>LONG.PR</b> <b>SCOPE</b> <b>EDT.WGT</b> <b>MAX.ADJ</b> <b>EDT.CNT</b>	Counting functions are preformed either by the COUNT or PIECE special functions. The COUNT determines piece weight using a measure sample of a number of pieces while the PIECE function allows the operator to enter piece weight directly.  <b>KEY:</b> Select key or external input to use.  <b>LONG.PR</b> (LONG PRESS: Selects if long press functionality should be enabled.  <b>SCOPE:</b> The piece or sample weight can be set to be identical for all products (GLOBAL) or different for each product (PROD).  <b>EDT.WGT:</b> (COUNT only) Select if to prompt for the weight or not. Resample allows you to keep adding pieces to adjust the sample size.  <b>MAX.ADJ:</b> (COUNT only) This sets the maximum percentage change in calculated piece weight allowed for a resample.  <b>EDT.CNT:</b> (COUNT only) Select if to prompt for count or not. If set to off the count will be set to 100 automatically. This can be used to set 100%.
<b>KEY Values</b> <OPT>	
None <sup>(Default)</sup> , F1 .. F3, IO1 .. IO32	
<b>LONG.PR Values</b> <OPT>	
ENABLE <sup>(Default)</sup> , DISABLE	
<b>SCOPE Values</b> <OPT>	
GLOBAL <sup>(Default)</sup> , PROD	
<b>EDT.WGT Values</b> <OPT>	
OFF, WEIGHT <sup>(Default)</sup> , RESAMPLE	
<b>MAX.ADJ Values</b> <NUM>	
0 .. 100, <i>Default: 1</i>	
<b>EDT.CNT Values</b> <OPT>	
OFF, ON <sup>(Default)</sup>	

**7.4.8. SFn: UNITS (Unit Switching Functions)**

Path	Description
FUNC SFn <b>TYPE : UNITS</b> <b>KEY</b> <b>LONG.PR</b> <b>MODE</b> <b>UNIT</b> (*) <b>U.STR</b> (*) <b>SCOPE</b> (*)	Unit Switching enables the display and printing of alternative units to those used for the primary calibration of the instrument.  <b>KEY:</b> Select key or external input to use.  <b>LONG.PR</b> (LONG PRESS: Selects if long press functionality should be enabled.  <b>MODE:</b> Sets the unit switching mode. Options are: <ul style="list-style-type: none"> <li>kg/lb (default): The instrument will convert kilograms to pounds or pounds to kilograms (depending on the primary unit).</li> <li>CUSTOM: The instrument will convert primary units to a custom unit defined by an entered conversion factor.</li> </ul>
<b>KEY Values</b> <OPT>	
None (Default), F1 .. F3, IO1 .. IO32	
<b>LONG.PR Values</b> <OPT>	
ENABLE (Default), DISABLE	
<b>MODE Values</b> <OPT>	
<ul style="list-style-type: none"> <li>kg/lb (Default)</li> <li>CUSTOM</li> </ul>	
<b>UNIT Values</b> <OPT>	
<ul style="list-style-type: none"> <li>NONE (Default)</li> <li>N</li> <li>ARROW U</li> <li>P</li> <li>L</li> <li>ARROW L</li> </ul>	<b>UNIT</b> (Alternative Unit Annunciator): Set the symbols to use for alternative units on the instrument display. Options are: <ul style="list-style-type: none"> <li>N: Useful for Newtons of Force.</li> <li>ARROW.U: Upper unit arrow</li> <li>P: useful for Pints.</li> <li>L: lower case 'l' for litres.</li> <li>ARROW.L: Lower unit arrow</li> </ul>
<b>U.STR Values</b> <STR>	
4 character string	
<b>SCOPE Values</b> <OPT>	
GLOBAL (Default), PROD	<b>U.STR</b> (Unit String): Four character alternative units string. Used in printing alternative units.  <b>SCOPE:</b> The conversion factor can be set to be identical for all products (GLOBAL) or different for each product (PROD).

**7.4.9. SFn: HOLD**

Path	Description
FUNC SFn <b>TYPE : HOLD</b> <b>KEY</b>	The hold key/input implements a manual hold.  <b>KEY:</b> Select key or external input to use.
<b>KEY Values</b> <OPT>	
None (Default), F1 .. F3, IO1 .. IO32	



**7.4.10. SFn: PK.HOLD (Peak Hold)**

Path	Description
FUNC SFn <b>TYPE : HOLD</b> <b>KEY</b> <b>LONG.PR</b>	A peak hold key/input implements a peak hold where the largest absolute weight, either positive or negative is stored and displayed.  <b>KEY:</b> Select key or external input to use.  <b>LONG.PR</b> (LONG PRESS: Selects if long press functionality should be enabled.
<b>KEY Values</b> <OPT>	
None <sup>(Default)</sup> , F1 .. F3, IO1 .. IO32	
<b>LONG.PR Values</b> <OPT>	
ENABLE <sup>(Default)</sup> , DISABLE	

**7.4.11. SFn: PRD.SEL (Product Select)**

Path	Description
FUNC SFn <b>TYPE : PRD.SEL</b> <b>KEY</b> <b>LONG.PR</b>	The product select key/input will cycle through the available totals information for the current product and allows the current product to be selected by number rather than name.  <b>KEY:</b> Select key or external input to use.  <b>LONG.PR</b> (LONG PRESS: Selects if long press functionality should be enabled.
<b>KEY Values</b> <OPT>	
None <sup>(Default)</sup> , F1 .. F3, IO1 .. IO32	
<b>LONG.PR Values</b> <OPT>	
ENABLE <sup>(Default)</sup> , DISABLE	

**7.4.12. SFn: THUMB (Thumbwheel Product Selection)**

Path	Description
FUNC SFn <b>TYPE : THUMB</b> <b>IO.BAND</b>	The Thumbwheel function supports the use of an external thumbwheel to select the current product using the product number.  A selection of '0' on the thumbwheel enables keyboard selection of the current product.
<b>IO.BAND Values</b> <OPT>	
IO1-4 <sup>(Default)</sup> , IO5-8, IO9-12, IO13-16, IO17-20, IO21-24, IO25-28, IO29-32	
	<b>IO.BAND:</b> Select which four remote inputs are used for the thumbwheel function.

**7.4.13. SFn: REM.KEY (Remote Key Functions)**

Path	Description
FUNC SFn <b>TYPE : REM.KEY</b> <b>KEY</b> <b>FUNC</b>	Remote key functions allow external inputs to be used to trigger instrument key functions. The external 'keys' operate even if the instrument keys are locked and never require Operator or Setup passcodes to be entered.
<b>KEY Values &lt;OPT&gt;</b>	<b>KEY:</b> External input to use.
None <sup>(Default)</sup> , IO1 .. IO32	<b>FUNC:</b> Choose key function.
<b>FUNC Values &lt;OPT&gt;</b>	
NONE <sup>(Default)</sup> , ZERO, TARE, GR/NET, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, +/-, ., CANCEL, UP, DOWN, OK	

**7.4.14. SFn: REPORT (Report Printing Functions)**

Path	Description
FUNC SFn <b>TYPE : REPORT</b> <b>KEY</b> <b>PRT.OUT</b> <b>CLR.TOT</b>	Configuration of the PRINT Special Function. <b>KEY:</b> Select PRINT key using front function key or external input. <b>PRT.OUT (PRINT OUT):</b> Selects the printout to print. Printouts are configured in the PRINT menu. <b>CLR.TOTAL:</b> Sets whether the print key affects the product totals.
<b>KEY Values &lt;OPT&gt;</b>	Options are:
None <sup>(Default)</sup> , F1 .. F3, IO1 .. IO32	<ul style="list-style-type: none"> <li>• NO: Add to totals</li> <li>• ASK: Undo last add to totals</li> <li>• CLEAR: Clear all totals</li> </ul>
<b>PRT.OUT Values &lt;OPT&gt;</b>	
None <sup>(Default)</sup> , PRINT.1 .. PRINT.2	
<b>CLR.TOTAL Values &lt;OPT&gt;</b>	
NO <sup>(Default)</sup> , ASK, CLEAR	

**7.4.15. SFn: HI.RES (High Resolution)**

Path	Description
FUNC SFn <b>TYPE : HI.RES</b> <b>KEY</b>	Key/input to toggle to high resolution mode. <b>KEY:</b> Select key or external input to use.
<b>KEY Values &lt;OPT&gt;</b>	
None <sup>(Default)</sup> , F1 .. F3, IO1 .. IO32	

7.4.16. **SFn: SC.EXIT (Scale Exit)**

Path	Description
FUNC SFn <b>TYPE : SC.EXIT</b> <b>KEY</b>	Key/input to trigger scale exit (SC.EXIT) setpoint. <b>KEY:</b> Select key or external input to use.
<b>KEY Values &lt;OPT&gt;</b>	
None <sup>(Default)</sup> , F1 .. F3, IO1 .. IO32	

7.4.17. **SFn: SEMI.P.T (Semi-auto Preset Tare)**

Path	Description
FUNC SFn <b>TYPE : SEMI.P.T</b> <b>KEY</b>	Key/input to set the preset tare to the current gross weight. <b>KEY:</b> Select key or external input to use.
<b>KEY Values &lt;OPT&gt;</b>	
None <sup>(Default)</sup> , F1 .. F3, IO1 .. IO32	

7.4.18. **SFn: A.TARE (Auto Tare)**

Path	Description
FUNC SFn <b>TYPE : A.TARE</b> <b>KEY</b> <b>THRESH</b> <b>ZER.DLY</b>	Key/input to set the preset tare to the current gross weight. <b>KEY:</b> Select key or external input to use. <b>THRESH:</b> Weight threshold to reach before automatically taring. <b>ZER.DLY:</b> Delay before returning to gross weight when inside the zero band.
<b>KEY Values &lt;OPT&gt;</b>	
None <sup>(Default)</sup> , F1 .. F3, IO1 .. IO32	
<b>THRESH Values &lt;NUM&gt;</b>	
0 <sup>(Default)</sup> .. Fullscale	
<b>ZER.DLY Values &lt;NUM&gt;</b>	
0.0 .. 10.0 s <i>Default: 5.0</i>	

## 7.5. SER.NET (Network communications)

Path	Description
SER.NET ADDR NUM STRT.CH END.CH.1 END.CH.2 NET.n TYPE SERIAL RESP SOURCE	Configure the serial networking support. <b>ADDR</b> (Address): Address of instrument (1..31). <b>NUM</b> : sets the number of networks <b>STRT.CH</b> (start character): Character for lua buffer to indicate start of new message. <b>END.CH.1</b> (end character): Character for lua buffer to indicate end of new message. <b>END.CH.2</b> (end character): Character for lua buffer to indicate end of new message.
<b>ADDR Values</b> <NUM>	<b>TYPE</b> : Type of Network Protocol: <ul style="list-style-type: none"> <li>• NONE: Disable networking</li> <li>• RinCMD: See Network Communications</li> <li>• Simple commands: See Network Communications.</li> <li>• Barcode: See Network Communications</li> <li>• Lua buffer: Buffer all comms for Lua module to read.</li> </ul> <b>SERIAL</b> : Serial Port to use. <b>RESP</b> : Respond with OK to simple commands. <b>SOURCE</b> : Barcode protocol source, settable to product name (NAME), product barcode (B.CODE) or product ID (ID).
1 .. 31	
<b>NUM Values</b> <OPT>	
-1- (Default) .. -2-	
<b>TYPE Values</b> <OPT>	
NONE (Default), RINCMD, SIMPLE, BARCODE, LUA BUFFER	
<b>SERIAL Values</b> <OPT>	
SER1A (Default), SER2A, SER3A	
<b>RESP Values</b> <OPT>	
NONE (Default), OK	
<b>SOURCE Values</b> <OPT>	
NAME (Default), B.CODE, ID	

## 7.6. SER.AUT (Automatic transmit)

### 7.6.1. NUM (Number of Automatic Transmissions)

Path	Description
SER.AUT NUM	Sets the number of special automatic outputs
<b>Values</b> <OPT>	
-1- (Default) .. -2-	

### 7.6.2. AUTO.n (Automatic Output Configuration)

Path	Description
SER.AUT AUTO.n <b>TYPE</b> <b>SERIAL</b> <b>FORMAT</b> <b>SOURCE</b> <b>EV.AUTO</b> <sup>(*)</sup>	These settings are the same for AUTO.1 and AUTO.2  <b>TYPE:</b> Sets the transmission rate. Options are: <ul style="list-style-type: none"> <li>• SINGLE: A SINGLE function key is used to trigger a single transmission. Rate is determined by external input.</li> <li>• AUTO.LO: Transmit at 10Hz</li> <li>• AUTO.HI: Transmit at 25Hz frequency</li> <li>• AUT.TRC: Sends a message for every traceable weight (Print event).</li> </ul> <b>SERIAL:</b> Select Serial port to use.  <b>FORMAT:</b> Set data format. <ul style="list-style-type: none"> <li>• FMT.TRC to provide a tally roll printer log.</li> </ul> <b>SOURCE:</b> Sets the weight data to send: <ul style="list-style-type: none"> <li>• GROSS: Gross weight</li> <li>• Net: Net weight</li> <li>• Gr.or.Nt: Gross or net weight</li> </ul> <b>EV.AUTO:</b> Token string to define data format for CUSTOM transmissions.
<b>TYPE Values</b> <OPT>	
NONE <sup>(Default)</sup> SINGLE AUTO.LO	AUTO.HI AUT.TRC
<b>SERIAL Values</b> <OPT>	
SER1A <sup>(Default)</sup> , SER1B, SER2A, SER2B, SER3A, SER3B	
<b>FORMAT Values</b> <OPT>	
FMT.A <sup>(Default)</sup> FMT.B FMT.C FMT.D	FMT.E FMT.REG FMT.TRC CUSTOM
<b>SOURCE Values</b> <OPT>	
GROSS <sup>(Default)</sup> , NET, GR.or.NT	
<b>EV.AUTO Values</b> <STR>	
Token String (* ) Only used with CUSTOM format.	

## 7.7. PRINT (Printouts)

### 7.7.1. NUM (Number of printouts)

Path	Description
PRINT <b>NUM</b>	Sets the number of printouts.
<b>Values</b> <OPT>	
_1_ <sup>(Default)</sup> .. _2_	

### 7.7.2. HEADER (Print header)

Path	Description
PRINT HEADER	Sets the print docket header.
<b>Values</b> <STR>	
String	

### 7.7.3. FOOTER (Print footer)

Path	Description
PRINT FOOTER	Sets the print docket footer.
<b>Values</b> <STR>	
String	

### 7.7.4. PAGE (Print page options)

Path	Description
PRINT PAGE WIDTH HEIGHT PG.END	Page settings configure the height and width of the paper and what to do at the bottom of a page. <b>WIDTH:</b> Sets the page width. A setting of zero disables page width checking. <b>HEIGHT:</b> Sets the page height. A setting of zero disables page height checking. <b>PG.END</b> (Page End String): Sets the string to print at page end. This option allows a cut character, form feed, etc, to be added every page.
<b>WIDTH Values</b> <NUM>	
0 .. 250 <i>Default: 0</i>	
<b>HEIGHT Values</b> <NUM>	
0 .. 250 <i>Default: 0</i>	
<b>PG.END Values</b> <STR>	
Token String	

### 7.7.5. SPACE (Print blank space options)

Path	Description
PRINT SPACE TOP LEFT BOTTOM	Space controls the amount of white space to leave around the printout. <b>TOP:</b> Sets the number of blank lines to add at the top of each page. <b>LEFT:</b> Sets the number of spaces to add at the beginning of each line. <b>BOTTOM:</b> Sets the number of blank lines to add to the bottom of each page.
<b>Values</b> <NUM>	
0 .. 10 <i>Default: 0</i>	

7.7.6. PRINT.n ... (Printout options)

Path	Description
PRINT PRINT.n <b>TYPE</b> <b>FORMAT</b> <b>SERIAL</b> <b>NAME</b> CUSTOM (*) <b>REC.PRN</b> or <b>PRN.KEY</b> <b>EV.D.NEW</b> <b>EV.D.END</b> <b>EV.P.NEW</b> <b>EV.P.END</b> or <b>REP.ST</b> <b>REP.PR</b> <b>REP.END</b>	Each printout has its own format settings. <b>TYPE:</b> Sets the printout type. Options are: <ul style="list-style-type: none"> <li>• NONE (default)</li> <li>• RECORD</li> <li>• DOCKET</li> <li>• REPORT</li> </ul> <b>FORMAT:</b> Sets the printout format. <b>SERIAL:</b> Select Serial port to use. <b>NAME (Printout Name):</b> Report printouts are available by name to the operator. <b>CUSTOM:</b> For custom printing, each type of printout uses event strings as follows: <p><b>RECORD:</b>                          REC.PRN (Record Print): defines entire printout.</p> <p><b>DOCKET:</b>                          PRN.KEY (Print Key) controls the format of each transaction on the docket.                          EV.D.NEW (Event Docket New) defines the start of the docket.                          EV.D.END (Event Docket End) defines the end of the docket.                          EV.P.NEW (Event Product New) defines what is printed when a new product is selected.                          EV.P.END (Event Product End) defines what is printed just before a new product is made active.</p> <p><b>REPORT:</b>                          REP.ST (Report Start) defines start of report.                          REP.PR (Report Product) controls the information printed for each product.                          REP.END (Report End) defines the end of the report.</p>
<b>TYPE Values</b> <OPT>	
NONE (Default), RECORD, DOCKET, REPORT	
<b>FORMAT Values</b> <OPT>	
FMT.A (Default), FMT.B, CUSTOM	
<b>SERIAL Values</b> <OPT>	
SER1A (Default), SER1B, SER2A, SER2B, SER3A, SER3B	
<b>NAME Values</b> <STR>	
6 character String	
<b>CUSTOM Values</b> <STR>	
(*) Active token strings depend on the TYPE setting	

## 7.8. SETP (Setpoints)

### 7.8.1. NUM (Number of setpoints)

Path	Description
SETP NUM	Sets the number of special setpoints
<b>Values &lt;OPT&gt;</b>	
1 ... 16 (Default)	

### 7.8.2. SETP1 ... SETP16 (Setpoint options)

Path	Description
SETP SETP <sub>n</sub> TYPE OUTPUT LOGIC ALARM SOURCE <sup>(i)</sup> SCOPE <sup>(ii)</sup> HYS <sup>(ii)</sup> REG <sup>(v)</sup> MASK <sup>(iii)</sup> DELAY <sup>(vi)</sup> ON <sup>(vi)</sup> RDY.TIM <sup>(iv)</sup> TIMING RESET PLS.NUM <sup>(vi)</sup> RST.LGC NAME	Configure the operation of each setpoint.  <b>TYPE</b> determines the function of the setpoint. Options are:
<b>TYPE Values &lt;OPT&gt;</b>	
<ul style="list-style-type: none"> <li>• NONE (Default)</li> <li>• ON</li> <li>• OVER</li> <li>• UNDER</li> <li>• COZ</li> <li>• ZERO</li> <li>• NET</li> <li>• MOTION</li> <li>• ERROR</li> <li>• LGC.AND</li> <li>• LGC.OR</li> <li>• LGC.XOR</li> <li>• SC.REDY</li> <li>• SC.EXIT</li> <li>• BUZZER</li> </ul>	<ul style="list-style-type: none"> <li>• NONE : Always inactive</li> <li>• ON: Always active</li> <li>• OVER: active if weight over target</li> <li>• UNDER: active of weight under target</li> <li>• COZ: active if Centre of Zero</li> <li>• ZERO: active if weight is zero</li> <li>• NET: active if net weight selected</li> <li>• MOTION: active if weight unstable</li> <li>• ERROR: active if error conditions detected</li> <li>• LGC.AND: active if inputs match the bits set in the mask exactly</li> <li>• LGC.OR: active if any inputs match the bits set in the mask</li> <li>• LGC.XOR: active if only one input matches the bits set in the mask</li> <li>• SC.REDY: active when scale is stable and at centre of zero for more than the time set in RDY.TIM</li> <li>• SC.EXIT: active when outside of zero band and a print event has occurred, or can be triggered by SC.EXIT special function input.</li> <li>• BUZZER: active when the buzzer sounds.</li> </ul>
<b>OUTPUT Values &lt;OPT&gt;</b>	
NONE <sup>(Default)</sup> , IO1 .. IO32	<b>OUTPUT</b> specifies which IO to use or the setpoint output.
<b>LOGIC Values &lt;OPT&gt;</b>	
HIGH <sup>(Default)</sup> , LOW	<b>LOGIC:</b> Logic HIGH forces the output to follow the setpoint activity, the output will be on when the setpoint is active. Logic LOW forces the output to the reverse of the setpoint activity, the output will be off when the setpoint is active.



<p><b>ALARM Values</b> &lt;OPT&gt;</p> <p>NONE (Default) SINGLE</p> <p>DOUBLE FLASH</p>	<p><b>ALARM:</b> Alarms are triggered when the setpoint is active. Options are:          NONE: no alarm          SINGLE: single BEEP          DOUBLE: double BEEP          FLASH: flash display</p>
<p><b>SOURCE Values</b> &lt;OPT&gt;</p> <ul style="list-style-type: none"> <li>• GROSS<sup>(i)</sup> (Default)</li> <li>• NET<sup>(i)</sup></li> <li>• GR.or.NT<sup>(i)</sup></li> <li>• ALT.GR<sup>(i)</sup></li> <li>• ALT.NET<sup>(i)</sup></li> <li>• ALT.G.or.N<sup>(i)</sup></li> <li>• PIECE<sup>(i)</sup></li> <li>• IO<sup>(iii)</sup></li> <li>• STATUS<sup>(iii)</sup></li> <li>• SETP<sup>(iii)</sup></li> <li>• REG<sup>(v)</sup></li> </ul> <p><sup>(i)</sup><b>NB:</b> Only for OVER, UNDER and ZERO setpoints.  <sup>(iii)</sup><b>NB:</b> Only for LGC.AND, LGC.OR and LGC.XOR setpoints.  <sup>(v)</sup><b>NB:</b> Only for OVER, UNDER, LGC.AND, LGC.OR and LGC.XOR setpoints.</p>	<p><b>SOURCE:</b> Select which weight values the setpoint checks against the target weight. Options are:          GROSS: Gross weight always          NET: Net weight always          GR.or.NT: Gross or Net depending on which one is displayed.          ALT.GR: Alternate Gross weight always          ALT.NET: Alternate Net weight always          ALT.G.or.N: Alternate Gross or Net depending on which one is displayed          PIECE: Gross or Net Piece count depending on which one is displayed          IO: perform logic setpoints on the IO status.          STATUS: perform logic setpoints on the current instrument status.          SETP: perform logic setpoints on the setpoint status.          REG: Register value.</p>
<p><b>SCOPE Values</b> &lt;OPT&gt;</p> <ul style="list-style-type: none"> <li>• GLOBAL (Default)</li> <li>• PROD</li> </ul> <p><sup>(ii)</sup><b>NB:</b> Only for OVER, and UNDER setpoints 1 through 8. Setpoints 9 through 16 are always GLOBAL.</p>	<p><b>SCOPE:</b> For setpoints 1 through 8 the setpoint target can be set to be identical for all products (GLOBAL) or different for each product (PROD). For setpoints 9 through 16 the targets are identical for all products.</p> <p><b>HYS:</b> Hysteresis defines the amount of weight required for an active setpoint to become inactive again.</p>
<p><b>HYS Values</b> &lt;NUM&gt;</p> <p>0 to 999999          Default: 0</p> <p><sup>(ii)</sup><b>NB:</b> Only for OVER, and UNDER setpoints.</p>	<p>A value of 0 still allows for 0.5 graduations of hysteresis.</p> <p><b>MASK:</b> a 32 bit number that is used by the logic setpoints to match the setpoint source.</p> <p><b>DELAY:</b> Delay for TIMING set to PULSE before setpoint becomes active.</p>
<p><b>MASK Values</b> &lt;NUM&gt;</p> <p>0 to 4294967295          Default 0</p> <p><sup>(iii)</sup><b>NB:</b> Only for LGC.AND, LGC.OR and LGC.XOR setpoints</p>	<p><b>ON:</b> Duration of pulse when TIMING set to PULSE.</p> <p><b>RDY.TIM:</b> the time that the scale must be in the zero band and stable before the SC.REDY setpoint will become active</p> <p><b>REG:</b> select which register to use as the source for the setpoint, must be a number or a weight. Decimal values for the registers should be used.</p>
<p><b>DELAY Values</b> &lt;NUM&gt;</p> <p>0.040 to 60.000s          Default 0.040s</p> <p><sup>(vi)</sup><b>NB:</b> Only for TIMING set to</p>	<p><b>TIMING:</b> Select the timing which is applied to the setpoint output. Options are:</p>

<p>PULSE</p> <p><b>ON Values</b> &lt;NUM&gt;</p> <p>0.040 to 60.000s Default 0.040s</p> <p>(vi) <b>NB:</b> Only for TIMING set to PULSE</p> <p><b>RDY.TIM Values</b> &lt;NUM&gt;</p> <p>0.000 to 60.000 s Default: 0.000</p> <p>(iv) <b>NB:</b> Only for SC.REDY setpoints.</p> <p><b>REG Values</b> &lt;NUM&gt;</p> <p>0 to 65535 Default: 0</p> <p>(v) <b>NB:</b> Only for OVER, UNDER, LGC.AND, LGC.OR and LGC.XOR setpoints.</p> <p><b>TIMING Values</b> &lt;OPT&gt;</p> <p>LEVEL<sup>(Default)</sup>, EDGE, PULSE, LATCH</p> <p><b>RESET Values</b> &lt;OPT&gt;</p> <p>NONE<sup>(Default)</sup>, IO1 .. IO32</p> <p><b>PLS.NUM Values</b> &lt;NUM&gt;</p> <p>1 to 20 Default: 1</p> <p>(vi) <b>NB:</b> Only for TIMING set to PULSE</p> <p><b>RST.LGC Values</b> &lt;OPT&gt;</p> <p>HIGH<sup>(Default)</sup>, LOW</p> <p><b>NAME Values</b> &lt;STR&gt;</p> <p>6 character String</p>	<p>LEVEL: Setpoint follows the weight.</p> <p>EDGE: Setpoint is edge triggered.</p> <p>PULSE: Setpoint output is pulsed.</p> <p>LATCH: Setpoint output is latched.</p> <p><b>RESET:</b> Input to disable the setpoint.</p> <p><b>PLS.NUM:</b> Number of pulses to output when TIMING is set to PULSE.</p> <p><b>RST.LGC:</b> Logic HIGH resets the setpoint when the input value is high. Logic LOW resets the setpoint when the input value is low.</p> <p><b>NAME:</b> give the setpoint a name, this will be shown when editing targets.</p>
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**7.9. ANL.OUT (Analogue Output)**

Path	Description
ANL.OUT ABS SOURCE RANGE WGT.LO WGT.HI	Configures the operation of the analogue transmission. <b>ABS</b> (Absolute Weight): Transmit negative weight values the same as positive weight values. <b>SOURCE</b> : GROSS, NET, GR.or.NT, COMMS
<b>ABS Values</b> <OPT>	<b>RANGE</b> : Set the weight range. Options are: FULLSCALE: 0 to fullscale CUSTOM: Use WGT.LO and WGT.HI
NO <sup>(Default)</sup> , YES	
<b>SOURCE Values</b> <OPT>	<b>WGT.LO</b> (Weight Low): Weight corresponding to the lower analogue limit. (e.g. 0 volts or 4 mA) <b>WGT.HI</b> (Weight High): Weight corresponding to the higher analogue limit. (e.g. 10Volts or 20 mA)
GROSS <sup>(Default)</sup> , NET GR.or.NT, COMMS	
<b>RANGE Values</b> <OPT>	
FULLSCALE <sup>(Default)</sup> , CUSTOM	
<b>WGT Values</b> <NUM>	
-999999 .. 999999	

**7.10. End (Save and exit)**