



Model No. – 1480

Dynisco # 14804100



# Universal Input Indicator Start-up Guide




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## 1. Setting up a unit straight out of the box

### 1.1. Entry into Configuration mode

When the unit is first powered on, the message **Goto Conf**, will appear on the screen. This is the first step to set up the unit for the functionality required by the user.

To enter configuration mode press the  key, this will then prompt you to enter an unlock code. **Uloc** will appear followed by **0**. To enter into the configuration mode the user must enter the correct unlock code using the  and  keys.

The default unlock code is **20**, if you do not enter the correct code the unit will revert back to the previous screen asking you to enter the code again.

If you forget any of the unlock code there is a hidden read only menu for them. To enter this mode you must power the unit down, whilst powered down you must press the  and , keeping them pressed whilst repowering the unit for 10-15 seconds. You will then enter a read only loc code view.

### *If not from first power up Configuration is entered from Select Mode*

**Hold down  and press  to force the controller into the Select Mode.**


**The *SLC* legend is shown for 1 second, followed by the legend for the current mode.**

**Press  or  to navigate to the Configuration Mode option, then press .**

### **Note:**

Set LED . This flashes in Configuration Mode.

### 1.2. Scrolling through Parameters and Values

**Press  to scroll through the parameters. While this key is pressed, and up to 1 second after, the parameter legend is shown, followed by the current parameter value.**

### **Note:**

**Only parameters that are applicable to the hardware options chosen will be displayed.**

### 1.3. Changing Parameter Values

Press  to navigate to the required parameter, then press  or  to set the value as required.

Once the desired value is set, press  to display *YES*, press  within 10 seconds, accept the change, otherwise parameter will revert to previous value.

Or




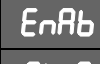













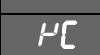





Press  to reject the change and to move onto the next parameter.

Hold down  and press  to return to Select Mode.

#### Note:

If there is no key activity for 2 minutes the instrument returns to the operator mode.

#### 1. 1480 Configuration Mode Parameters

Parameter	Legend <i>for 1 sec followed by</i> 	Set Value	Adjustment Range & Description	Default Value	When Visible	Units Display
Mode Default		 	Enable or disable default of all parameters in configuration mode		Always	
Input type and Range			Strain Guage: -10 to 50mV		Always	
			B type: 100 to 1824 °C			
			B type: 211 to 3315 °F			
			C type: 0 to 2320 °C			
			C type: 32 to 4208 °F			
			J type: -200 to 1200 °C			
			J type: -328 to 2192 °F			
			J type: -128.8 to 537.7 °C with decimal point			
			J type: -199.9 to 999.9 °F with decimal point			
			K type: -240 to 1373 °C			
			K type: -400 to 2503 °F			
			K type: -128.8 to 537.7 °C with decimal point			
			K type: -199.9 to 999.9 °F with decimal point			
			0 to 20mA DC			
			4 to 20mA DC			

		<b>0.50</b>	0 to 50mV DC			
		<b>10.50</b>	10 to 50mV DC			
		<b>0.5</b>	0 to 5V DC			
		<b>1.5</b>	1 to 5V DC			
		<b>0.10</b>	0 to 10V DC			
		<b>2.10</b>	2 to 10V DC			
Scale Range Upper Limit	<b>rUL</b>		Scale Range Lower Limit +100 to Range Max	Strain Gauge/ Linear = 1000 = max range	Always	<b>u</b>
Scale Range Lower Limit	<b>rLL</b>		Range Min. to Scale range Upper Limit - 100	Strain Gauge/ Linear = 0 = min range	Always	<b>L</b>
Decimal point position	<b>dPoS</b>	<b>0</b>	Decimal point position in non-temperature ranges. 0 = <b>XXXX</b> 1 = <b>XXX.X</b> 2 = <b>XX.XX</b> 3 = <b>X.XXX</b>	<b>1</b>	<b>InPt</b> = mV, V or mA	<b>P</b>
		<b>1</b>				
		<b>2</b>				
		<b>3</b>				
Linear Range Engineering Units Display	<b>L inU</b>	<b>nonE</b>	<b>nonE</b> (Blank), <b>C</b> = °C or <b>F</b> = °F For use where linear inputs represent temperature.	<b>nonE</b>	<b>InPt</b> = mV, V or mA	<b>C</b>
		<b>C</b>				<b>F</b>
		<b>F</b>				<b>F</b>
Multi-Point Scaling	<b>rAPS</b>	<b>EnAb</b>	<b>d,SA</b> disabled or <b>EnAb</b> enabled	<b>d,SA</b>	Always	<b>S</b>
		<b>d,SA</b>				
Alarm 1 Type	<b>ALA1</b>	<b>P_H,</b>	Process High Alarm	<b>P_H,</b>	Always	<b>1</b>
		<b>P_Lo</b>	Process Low Alarm			
		<b>nonE</b>	No alarm			
Process High Alarm 1 value*	<b>PhA1</b>		Range Min. to Range Max. <i>Parameter repeated in Setup Mode</i>	Range Max.	<b>ALA1</b> = <b>P_H,</b>	<b>A</b> if alarm 1 only or <b>1</b>
Process Low Alarm 1 value*	<b>PLA1</b>		Range Min. to Range Max <i>Parameter repeated in Setup Mode</i>	Range Min.	<b>ALA1</b> = <b>P_Lo</b>	<b>1</b>
Alarm 1 Hysteresis*	<b>AHY1</b>		1 LSD to 100% of span (in display units) on "safe" side of alarm point. <i>Parameter repeated in Setup Mode</i>	<b>1</b>	<b>ALA1</b> is not <b>nonE</b>	<b>-</b>
Alarm 2 Type	<b>ALA2</b>		As for alarm 1 type	<b>nonE</b>	Always	<b>2</b>
Process High Alarm 2 value*	<b>PhA2</b>		Range Min. to Range Max. <i>Parameter repeated in Setup Mode</i>	Range Max.	<b>ALA2</b> = <b>P_H,</b>	<b>2</b>

Process Low Alarm 2 value*	<b>PLA2</b>	Range Min. to Range Max. <i>Parameter repeated in Setup Mode</i>		Range Min.	<b>ALA2 = P.Lo</b>	
Alarm 2 Hysteresis*	<b>AHY2</b>	1 LSD to 100% of span (in display units) on "safe" side of alarm point. <i>Parameter repeated in Setup Mode</i>		<b>1</b>	<b>ALA2</b> is not nonE	<b>=</b>
Output 1 Usage	<b>USE1</b>	<b>rEtP</b>	Retransmit PV Output	<b>rEtP</b> if <b>OPn1</b> is linear output type	<b>OPn1</b> is not linear or empty	<b>1</b>
		<b>dc10</b>	0 to 10VDC (adjustable) transmitter power supply*			
Output 1 PV Retransmit Type	<b>tYP1</b>	<b>0_5</b>	0 to 5 V DC output 1	<b>0_10</b>	<b>USE1 = rEtP</b>	<b>1</b>
		<b>0_10</b>	0 to 10 V DC output			
		<b>2_10</b>	2 to 10 V DC output			
		<b>0_20</b>	0 to 20 mA DC output			
		<b>4_20</b>	4 to 20 mA DC output			
Retransmit Output 1 Scale maximum	<b>roIH</b>	<b>- 1999 to 9999</b> Display value where output is maximum		Range max	<b>USE1 = rEtP</b>	<b>H</b>
Retransmit Output 1 Scale minimum	<b>roIL</b>	<b>- 1999 to 9999</b> Display value where output is minimum		Range min	<b>USE1 = rEtP</b>	<b>L</b>
Output 1 TxPSU voltage level	<b>PSU1</b>	0 to 10VDC transmitter power supply output in 0.1V steps*		<b>10.0</b>	<b>USE1 = dc10</b>	<b>1</b>
Output 2 Usage	<b>USE2</b>	<b>A1nd</b>	Alarm 1, direct, non-latching	<b>A1nd</b>	<b>OPn2</b> is not empty	<b>2</b>
		<b>A1nr</b>	Alarm 1, reverse, non-latching			
		<b>A1ld</b>	Alarm 1, direct, latching			
		<b>A1lr</b>	Alarm 1, reverse, latching			
		<b>A2nd</b>	Alarm 2, direct, non-latching			
		<b>A2nr</b>	Alarm 2, reverse, non-latching			
		<b>A2ld</b>	Alarm 2, direct, latching			
		<b>A2lr</b>	Alarm 2, reverse, latching			
		<b>O12d</b>	Logical Alarm 1 OR 2, direct			
		<b>O12r</b>	Logical Alarm 1 OR 2, reverse			
		<b>AAnyd</b>	Any active alarm, direct			
		<b>AAnyr</b>	Any active alarm, reverse			
Output 3 Usage	<b>USE3</b>	As for Output 2 usage		<b>A2nd</b>	<b>OPn3</b> is not empty	<b>3</b>

Display Strategy	<b>d,SP</b>	<b>0, 1, 2, 3, 4 or 6</b> (see Operator Mode for details)	<b>0</b>	Always	<b>d</b>
Logic Input Usage	<b>d,IG,1</b>	<b>rrLY</b>	Reset latched relay(s)	<b>rrLY</b>	<b>OPnR</b> = <b>d,IG,1</b>
		<b>tArE</b>	Initiate Tare (zero display)		
		<b>rPU</b>	Reset min/max PV values		
		<b>rE</b>	Reset Alarm 1 elapsed time		
		<b>rPUe</b>	Reset Alarm 1 elapsed time & min/max PV values		
Logic Input State	<b>d,IGd</b>	<b>CLS</b>	Normally closed contact action	<b>CLS</b>	<b>CLS</b>
		<b>OPn</b>	Normally open contact action		
Configuration Mode Lock Code	<b>CLoc</b>	<b>0 to 9999</b>	<b>20</b>	Always	<b>C</b>

**Note:**

*\*Linear Outputs can be configured to provide an adjustable 0.0 to 10.0VDC transmitter power supply for external devices.*

## 2 Calibration Mode

### 2.1 Entry to Calibration Mode

**Note:** Configuration mode must be completed before adjusting Calibration parameters.




First select Calibration mode from Select mode.

Hold down  and press  to force the controller into the Select Mode.

The *SLCT* legend is shown for 1 second, followed by the legend for the current mode.

Press  or  to navigate to the Calibration Mode option, then press 

You then need to enter the unlock code using the  or  keys, then press  to enter the mode.




Press  to scroll through the parameters (*while this key is pressed, and for 1 sec after, the parameter legend is shown, then the current value*). Press  or  to change the value.



To exit from Calibration mode, hold down  and press  to return to Select mode.

**Note:**

Entry into Calibration Mode is security-protected by the Calibration Mode lock code.  
Default value is 10.

**Note:** Calibration mode will only be displayed if input type is set to *St\_G*

Parameter	Legend <i>for 1 sec followed by</i> 	Set Value	Adjustment Range & Description	Default Value	When Visible	Units Displa y
Mode Default	<i>dF77</i>	<i>d .5A</i> <i>EnAb</i>	Enable or disable default of all parameters in configuration mode	<i>d .5A</i>	Always	
Shunt Resistor	<i>Shnt</i>	<i>EnAb</i> <i>d .5A</i>	Enables or disables use of the Shunt Resistor ( should be enabled with Dynisco probes)	<i>St_G</i>	Always	<i>r</i>
Calibration Resistor Value	<i>rCAL</i>	<i>80 .0</i>	40% to 100% (appears only when <i>Shnt</i> is <i>EnAb</i> )	<i>80 .0</i>	If Shunt is Enabled	
Start Low Calibration	<i>C .LO</i>	<i>0 .0</i>	Press  and  together to start calibration	<i>0 .0</i>	Always	

Parameter	Legend <i>for 1 sec followed by</i> →	Set Value	Adjustment Range & Description	Default Value	When Visible	Units Displa y
Start High Calibration	C.H.	1000	Press  and  together to start calibration	1000	Always	
Calibration Lock code	rLoc	10	Can set the lock code from 0 to 9999	10	Always	

When the calibration procedure begins ---- appears on the screen. Once Calibration is complete done appears on screen.

If there are any Faults with the calibration an error message will appear either Er\_r or Er\_L.

Er\_L means the low calibration will fail if the offset is less than -10mV or greater than +10mV. This signifies potential faulty sensors or the high calibration will fail if the count value is less than +20mV or greater than +50mV. This signifies potential faulty sensors

Er\_r means the high calibration will fail if the mV value is within 10mV of the low calibration value. This is a potential RCAL failure.

#### Setup Mode

*This mode is normally selected only after Configuration Mode has been completed, or is used when a change to the process set up is required. These parameters must be set as required before attempting to use the indicator in an application.*

## 3 Setup Mode

### 3.1 Entry into the Setup Mode

*Setup Mode is entered from Select Mode*

*Hold down  and press  to force the controller into the Select Mode.*


*The **SLLE** legend is shown for 1 second, followed by the legend for the current mode.*

*Press  or  to navigate to the Setup Mode option, then press .*


**Note:**

*Entry into Setup Mode is security-protected by the Setup Mode lock code. Default value is 10.*

**Note:**

*Set LED . This is on in Setup Mode.*

### 3.2 Scrolling through Parameters and Values

*Press  to scroll through the parameters. While this key is pressed, and up to 1 second after, the parameter legend is shown, followed by the current parameter value.*

### 3.3 Changing Parameter Values

*Press  to select the required parameter, then press  or  to set the value as required.*

*Once the displayed value is changed, it is effective immediately. No confirmation of the change is required.*


*Press  to move onto the next parameter.*

*Hold down  and press  to return to Select Mode.*

**Note:**

*If there is no key activity for two minutes the instrument returns to the operator mode.*

Parameter	Legend for 1 sec followed by →	Set Value	Adjustment Range & Description	Default Value	When Visible	Units Display
Default Mode	<b>dF77</b>	<b>d.5A</b> <b>EnAb</b>	Enables or Disables Defaulting of Values within Mode	<b>d.5A</b>	Always	
Input Filter Time constant	<b>Filt</b>	OFF, 0.5 to 100.0 seconds in 0.5 sec increments		<b>0.5</b>	Always	<b>t</b>
Alarm Filter time Constant	<b>ALFL</b>	OFF, 0.5 to 100.0 seconds in 0.5 sec increments		<b>0.0</b>	Always	<b>t</b>
Input fail Mode	<b>InPF</b>	<b>Low</b> <b>High</b>	When input fails PV should go Low or High scale reading	<b>High</b>	Always	
Process Variable Offset	<b>OFFS</b>	±Instrument Span		<b>0</b>	Always	<b>o</b>
Raw Process Variable value	<b>SIG</b>	The un-scaled value of the input signal in mV, V or mA DC as defined by the input range and type. Resolution to 1 decimal place (e.g. 4.0 to 20.0mA). <i>This parameter is Read Only</i>			<b>InPt</b> = mV, V or mA	<b>blank</b>
Process High Alarm 1 value*	<b>PHA1</b>	Range Min. to Range Max. <i>Repeat of Configuration Mode parameter</i>		Range Max.	<b>ALA1</b> = <b>P_H1</b>	<b>A</b> if alarm 1 only or <b>!</b>
Process Low Alarm 1 value*	<b>PLA1</b>	Range Min. to Range Max. <i>Repeat of Configuration Mode parameter</i>		Range Min.	<b>ALA1</b> = <b>P_Lo</b>	
Alarm 1 Hysteresis*	<b>AHY1</b>	1 LSD to 100% of span (in display units) on "safe" side of alarm point. <i>Repeat of Configuration Mode parameter</i>		<b>1</b>	<b>ALA1</b> is not <b>nonE</b>	<b>-</b>
Process High Alarm 2 value*	<b>PHA2</b>	Range Min. to Range Max. <i>Repeat of Configuration Mode parameter</i>		Range Max.	<b>ALA2</b> = <b>P_H1</b>	<b>2</b>
Process Low Alarm 2 value*	<b>PLA2</b>	Range Min. to Range Max. <i>Repeat of Configuration Mode parameter</i>		Range Min.	<b>ALA2</b> = <b>P_Lo</b>	
Alarm 2 Hysteresis*	<b>AHY2</b>	1 LSD to 100% of span (in display units) on "safe" side of alarm point. <i>Repeat of Configuration Mode parameter</i>		<b>1</b>	<b>ALA2</b> is not <b>nonE</b>	<b>=</b>
Scaling Breakpoint 1	<b>ScA1</b>	Multi-point scaling breakpoint 1 value, adjustable from <b>0</b> to <b>100</b> in % of span		<b>100</b>	<b>77P5</b> = <b>EnAb</b>	<b>1</b>
Display Value 1	<b>d.51</b>	Value to be displayed at multi-point scaling breakpoint 1, in display units		Range Max.		
Scaling Breakpoint 2	<b>ScA2</b>	Multi-point scaling breakpoint 2, adjustable up to 100% of span. Must be > <b>ScA1</b> value			<b>77P5</b> = <b>EnAb</b>	<b>2</b>
Display Value 2	<b>d.52</b>	Value to be displayed at Multi-point scaling breakpoint 2, in display units				
Scaling Breakpoint 3	<b>ScA3</b>	Multi-point scaling breakpoint 3, adjustable up to 100% of span. Must be > <b>ScA2</b> value			<b>77P5</b> = <b>EnAb</b>	<b>3</b>
Display Value 3	<b>d.53</b>	Value to be displayed at Multi-point scaling breakpoint 3, in display units				

Parameter	Legend for 1 sec followed by 	Set Value	Adjustment Range & Description	Default Value	When Visible	Units Display
Scaling Breakpoint 4	<b>ScA4</b>		Multi-point scaling breakpoint 4, adjustable up to 100% of span. Must be > <b>ScA3</b> value		<b>൬൬5 = EnAb</b>	4
Display Value 4	<b>d .54</b>		Value to be displayed at Multi-point scaling breakpoint 4, in display units			
Scaling Breakpoint 5	<b>ScA5</b>		Multi-point scaling breakpoint 5, adjustable up to 100% of span. Must be > <b>ScA4</b> value		<b>൬൬5 = EnAb</b>	5
Display Value 5	<b>d .55</b>		Value to be displayed at Multi-point scaling breakpoint 5, in display units			
Scaling Breakpoint 6	<b>ScA6</b>		Multi-point scaling breakpoint 6, adjustable up to 100% of span. Must be > <b>ScA5</b> value		<b>൬൬5 = EnAb</b>	6
Display Value 6	<b>d .56</b>		Value to be displayed at Multi-point scaling breakpoint 6, in display units			
Scaling Breakpoint 7	<b>ScA7</b>		Multi-point scaling breakpoint 7, adjustable up to 100% of span. Must be > <b>ScA6</b> value		<b>൬൬5 = EnAb</b>	7
Display Value 7	<b>d .57</b>		Value to be displayed at Multi-point scaling breakpoint 7, in display units			
Scaling Breakpoint 8	<b>ScA8</b>		Multi-point scaling breakpoint 8, adjustable up to 100% of span. Must be > <b>ScA7</b> value		<b>൬൬5 = EnAb</b>	8
Display Value 8	<b>d .58</b>		Value to be displayed at Multi-point scaling breakpoint 8, in display units			
Scaling Breakpoint 9	<b>ScA9</b>		Multi-point scaling breakpoint 9, adjustable up to 100% of span. Must be > <b>ScA8</b> value		<b>൬൬5 = EnAb</b>	9
Display Value 9	<b>d .59</b>		Value to be displayed at Multi-point scaling breakpoint 9, in display units			
Tare Function	<b>tArE</b>	<b>EnAb</b>	Enables or disables the input auto-zero Tare feature	<b>d .5A</b>	Always	r
		<b>d .5A</b>				
Set-up Lock Code	<b>SLoc</b>	<b>0 to 9999</b>		<b>10</b>	Always	5
**Operator mode displays follows.						

**Note:**

*Alarm parameters marked \* are repeated in Configuration Mode.*

**Note:**

*\*\*Once the complete list of Set Up Mode parameters has been displayed, the Operator Mode displays are shown without exiting from Set Up Mode.*

## 4 Operator Mode

*This is the mode used during normal operation of the instrument. It can be accessed from Select Mode, and is the usual mode entered at power-up. The available displays are dependent upon the setting of the Display Strategy parameter in Configuration Mode.*

### WARNING:

IN NORMAL OPERATION, THE OPERATOR MUST NOT REMOVE THE INSTRUMENT FROM ITS HOUSING OR HAVE UNRESTRICTED ACCESS TO THE REAR TERMINALS, AS THIS WOULD PROVIDE POTENTIAL CONTACT WITH HAZARDOUS LIVE PARTS.

### CAUTION:

Set all Configuration Mode parameters and Set Up Mode parameters as required before starting normal operations.

### 4.1 Entry into Operator Mode


*This is the normal operating mode of the instrument from power-up. It can also be accessed from any other mode via Select Mode as follows:*

Hold down  and press  to force the controller into the Select Mode.

The *SLLt* legend is shown for 1 second, followed by the legend for the current mode.

Press  or  to navigate to the Operator Mode option, then press .

### 4.2 Scrolling through Parameters and Values

Press  to scroll through the parameters. While this key is pressed, and up to 1 second after, the parameter legend is shown, followed by the current parameter value.

### 4.3 Changing Parameter Values




Press  to select the required parameter, then press  or  to set the value as required.

Once the displayed value is changed, it is effective immediately. No confirmation of the change is required.

Press  to move onto the next parameter.

### Note:

The operator can freely view the parameters in this mode, but alteration depends on the Display strategy setting in Configuration Mode. All parameters in Display strategy 6 are read only, and can only be adjusted via Setup mode.

Parameter	Legend <i>for 1 sec followed by</i> →	Set Value	Adjustment Range & Description	Display Strategy & When Visible	Units Display	
Process Variable	<b>Proc</b>		Current Process Variable value <i>Read only, but latched relays can be reset (*see below)</i>	Always	°C, °F or blank	
Maximum PV Value	<b>P7A</b>		Maximum displayed value (inc <b>[HH]</b> or <b>OPEN</b> ) since <b>P7A</b> was last reset. Max LED  is lit on model P8010	Strategies <b>0, 1, 3, 4, &amp; 6</b>	°C, °F or blank	
Minimum PV Value	<b>P7 in</b>		Minimum displayed value (inc <b>[LL]</b> or <b>OPEN</b> ) since <b>P7 in</b> was last reset. Min LED  is lit on model P8010	Strategies <b>0, 1, 3, 4, &amp; 6</b>	°C, °F or blank	
Alarm 1 Active Time	<b>Et 1</b>		Accumulated time alarm 1 has been active since <b>Et 1</b> was last reset. Format <i>mm.ss to 99.59 then mmm.s (10 sec increments)</i> Shows <b>[HH]</b> if >999.9	Strategies <b>0, 4 &amp; 6</b> if alarm 1 configured.	E	
Process Alarm 1 value	<b>AL 1</b>		Alarm 1 value. <i>Adjustable except in Strategy 6</i>	Strategies <b>2, 3, 4 &amp; 6</b> if alarm 1 configured	A if alarm 1 only or 1	
Process Alarm 2 value	<b>AL 2</b>		Alarm 2 value. <i>Adjustable except in Strategy 6</i>	Strategies <b>2, 3, 4 &amp; 6</b> if alarm 2 configured	2	
Active Alarm Status	<b>ALST</b>	 <p>When alarms are active, the associated Alarm LED flashes. <i>Latched relays can be reset (see below)</i></p>	Display(s) show active alarms. Inactive alarms are blank	Alarm 1 Active	1	
				2	Alarm 2 Active	

### 1/8 Din Indicator Units Display

The 1480 1/8 Din indicator has an additional Units Display. In Operator Mode, this display shows °C or °F when a temperature input range is displayed, and is blank for strain gauge or linear inputs.

The units display is also used in other modes as a confirmation of the parameter type currently shown in the main display.

## 5 Alarm Indications



*The alarm status screen indicates any active alarms, in addition the associated Alarm LED flashes.*

*For latching alarm outputs, the LED FLASHES when the alarm condition exists, and goes to ON when the alarm condition is no longer present if the output has not yet been reset, to indicate that the relay is in the Latched on condition.*

### 5.1 Resetting Latched Alarm Outputs

*Latched outputs can be reset whilst the Process variable or Alarm Status screens are displayed, via the Digital Input (if fitted), from the front keypad as follows:*

*Press either  or  to reset the latched relay(s).*

**Note:**


*Outputs will only reset if their alarm condition is no longer present.*

**CAUTION:**

**A reset will affect ALL latched outputs.**

### 5.2 Resetting Alarm 1 Active Time, Minimum PV or Maximum PV

The stored Maximum PV value, Minimum PV value or Alarm 1 active Elapsed Time value can be reset via the Digital Input (if fitted), with a communications command via the RS485 module (if fitted) or from the front keypad as follows:

Press  to select the parameter to be reset.

Press either  or  for three seconds.

*The display briefly shows ---- when the value is reset before the unit reverts to the requested display.*

#### **Multi-Point Scaling**

*When Multi-Point Scaling is enabled ( $MPS = ENAB$  in Configuration Mode), up to 9 breakpoints can be set to linearize the input signal. This only applies to mA, mV or Voltage input types.*

*For each breakpoint the input scale value ( $ScAn$ ) is entered in % of input span, followed by the value to be shown ( $d, Sn$ ) in display units. Each breakpoint's input scale value must be higher than the previous value, but the display values can be either higher or lower. Any scale value set to 100% becomes the last in the series.*

## 6 Tare Feature

*When Tare is enabled ( $TARe = EnAb$  in Configuration Mode), it can be used to set the displayed value to zero automatically, by making the PV Offset parameter equal, but opposite to, the current process variable value.*

*Tare can be initiated via the Digital Input (if fitted), or by using the following key press sequence:*

*Press  until the process variable is displayed.*

*Hold down  and  together for three seconds until the display shows *YES?**

*Release both keys and press  within 3 seconds to confirm the request.*

### Note:

*The Tare request is aborted if this sequence is not followed exactly.*