RL1 RL2 PRG F			PANEL MOUNTING			ERROR MESSAGES				
8.8.8.8	E-2000M	O E-200 suitat preve	00M controller should be installed inside a ble grounded metal enclosure (panel). This must int the live parts being accessible to human	Message		Meaning	F	Remedy		
	USER MANUAL	O E-200 switcl	s and metal tools. DOM controller does not include a power h. Therefore, the power supply to the oller and power outputs must be wired through the proper fuse	oPEn	The conne is broken.	ection of the sens	or Check the the sense	e sensor and or connection.		
E-2000M series universal microcontroller based ind control forms, dimensions	니 process controllers are advanced new generation ustrial instruments designed for On/Off and PID s of 96X96 mm compatible with IEC 668 standarts.	or circ To mi lines, high-o	cuit breaker. nimize the pick-up of electrical noise, the wiring of low voltage particularly the sensor input should be routed away from the current power cables. Where it is not possible, use shielded	UFL	The proce the senso interval.	ess value is below r type-temperatur	e Check the	e sensor and type specified		
Universal inputs and outp user. E-2000M process controll canability with no moving	uts of controller can be programmed easily by the lers are equipment having high reading sensivity and	Cable Contraction Contraction Contraction Contraction Cable Contraction Cable Contraction Cable Contraction Contra	s with the shield grounded at both ends. ables used for powering the controller and the power outputs conform to the standarts IEC 60245 and IEC 60227.	oFL	The proce the senso interval.	ess value is above r type-temperatur	e by the Ini	PÈ parameter.		
drift with time and environ display. E-2000M indicatin mV, mA, thermocouple, re transmitters. Controllers h	iment conditions. Indicating method is 2x4 digit LED ng range is from -1999 to 9999 and is able to connect esistance thermometer and other sensors and have high input empedance and protecting and	+0	Cut a hole in the panel. (See the figure for overall dimensions.)	որոր	The proce above the be display	ess value is value that can ved.	Check the on the inp and the s	e analog value out terminal calar specified		
warning the system again E-2000M process control measurement and contro voltage, resistance and o	I of temperature, pressure, level, speed, current, ther physical units; as well asin the industry	-0	.0 min. 10 mm the front of the panel. Fit the mounting clamps to the controller, ensuring the lugs are located in their slots.		The proce below the be display	ess value is value that can red.	by the dP paramete	, 2Ero and 5PAn rs.		
branches of iron&steel, co refineries, ceramic, glass	ement, plastic, chemistry, metallurgy, petrochemical and others.	min. 35 mm	→ ← ☐ Fasten the mounting clamps using the retaining screws.		11	NPUT TYPES a	nd RANGES			
E-2000M controller should be used in a	is designed for panel mounting and an industrial environment			TEMPE	RATURE SE	NSORS	-			
• The package of E-2	2000M controller contains;		FRONT PANEL	Sens	or Type	Standart	(°C)	(°F)		
2 pieces of mountin			Leds	Type	В Ь	IEC584-1	60,1820	140,3308		
User manual				Туре	Ε Ε	IEC584-1	-200, 840	-328 , 1544		
Guarantee certifica	te ackage, please check the contents with the			Type	 ן ן	IEC584-1	-200 , 1120	-328 , 1562		
above list. If the de	livered product is wrong type, any item is			Type	K F	IEC584-1	-200 . 1360	-328 . 2480		
missing or there are	e visible defects, contact the vendor from which			Туре		DIN43710	-200 900	-328 1652		
Before installing an	d operating the controller, please read the user			Туре		JEC584-1	-200 1300	-328 2372		
manual thoroughly.			Lower Display	Туре		IEC584-1	40 1760	-520 , 2572		
O The installation and performed by a per	d configuration of the controller must only be			Туре	к ' С г	IEC584-1	-40 , 1700	104 , 3200		
$\bigcirc$ Keep the unit awa	v from flamable gases, that could cause			Туре	<u> </u>	IEC584-1	-40 , 1760	104 , 3200		
explotions.	y nom namasio gaboo, that bould badoo			Туре	ΤĿ	IEC584-1	-200 , 400	-328 , 752		
O Do not use alcoho	of or other solvents to clean the controller.			Туре	U U	DIN43710	-200 , 600	-328 , 1112		
wipe the outer sur	face of the controller.		Enter Button	Pt-10	0 PE	IEC751	-200,840	-328 , 1544		
O The product life of	this instrument is 10 years.		Un/Down Star		INPLITS					
			Buttons Button		Type		Ra	nge		
TEC		RI1 Led	When lit, it indicates that RI 1 output is active		Current	0820	0-20	mADC		
	Thermocouple (TC): B, E, J, K, L, N, R, S, T, U	RL1 Led	When lit, it indicates that RI 2 output is active.		Current	4820	4-20	mADC		
Input Types	<b>Current</b> : 0-20 mA, 4-20 mA (Linear)	BBC Lod	When lit, it indicates that the controller is in the		Voltage	0.50	0-50	mV DC		
	<b>Voltage :</b> 0-50 mV, 0-1 V, 0.2-1 V (Linear)	FRGLed	configuration mode.		Voltage	00,1	0-1	V DC		
Control Output	Relay : SPST-NO 250V AC, 3A Current : 0-20 mA, 4-20 mA (Isolated) Pulse : 24V DC, 25 mA (for SSR) (from RL1 output)	F Led	- When lit, it indicates that the controller is in manual mode.		Voltage	020 1	0.2-	1 V DC		
Alarm Outputs	Relay : SPST-NO 250V AC, 3A		is in progress.							
Display Type	<b>Thermocouple:</b> (+0.5% of the reading value or +1 °C)					A010-1	UNE			
Accuracy	±1 digit max. <b>Pt-100</b> : (±0.5% of the reading value or ±1 °C) ±1 digit max.	Upper Display	<ul> <li>While in normal operation, it displays the process value or error message.</li> <li>While in configuration pages, it displays the name of the parameters</li> </ul>	Auto proc invo	e-tuning mate ess being co lves calculat	ches the characte ontrolled in order ting and setting th	ristics of the co to obtain good o e values of the	ntroller to the control. Tuning PID parameters.		
Analog Digital Converter	Analog Input: ±0.5% FS ±1 digit max.	Lower	- While in normal operation, it displays the control set point	The	Auto-tuner v	works by switching	g the output on	and off to induce an		
Digital Analog Converter	12 bit	Display	(Automatic mode) or manual output (Manual mode).	osci	lations PID	parameters are ca	alculated.	יים מות אפווטת טו		
Control Type	On/Off, PID	₩ Star	- When pressed together with Chutten, pessword is called		-tune can b	e performed at an	v time but porn	nally it is performed		
Operating Voltage	85-265 V AC / 85-375 V DC 20-60 V AC / 20-85 V DC	Button	for entering the configuration page.	only if the	once during	the initial comminder control subse	ssioning of the p	process. However, es unstable		
Encloser Ratings	Prove (7 VA)		normal operation. - While in normal operation, pressing this button for duration	(bec	ause its cha	racteristics have	changed), you d	can re-tune again		
Operating Temperature	-10 °C, +55 °C (+14 °F, +131 °F) (with no condensation or icing)		3 seconds, toggles between automatic and manual mode. This operation is disabled if the $\bar{n}PL$ parameter in page $PrEL$ is set to d5b or if the Later parameter in $e^{\sum E}$ page in set other		der to start	Auto-tune process				
Storage Temperature	-25 °C, +65 °C (-13 °F, +149 °F) (with no condensation or icing) 10.000.000 operations		than <i>P Id</i> . - While in normal operation, pressing this button acknowledges the latched alarms if configured $(RX) = \infty$	2- S	et the contro ate the proc	bl set point to the sess. Consider als	value at which y o the process v	ou will normally alue may exceed		
Relay Mechanical Life	(The relay life differs according to the usage configuration. When the relays are old, their contacts could melt or burn out.)	Enter Button	- When pressed together with ❀ button, password is asked for entering the configuration page.	the 0 3- S 4- S	control set p et the HSS p et the RE pa	oint while in Auto- arameter in בטהב rameter in בטהב p	tuning. page as 0. I (if c age as on to co	#P=1) or I (if dP=0). Immence		
Relay Electrical Life Memorv	>1.000.000 operations (under 1/10 of load) EEPROM (100.000 max, write-erase)		- vvnile in configuration pages, pressing this button selects the next parameter.		-tuning proc	ess. Press 迷 but	ton to revert the	e normal operation.		
Weight	232 g		2 seconds, returns to the top of the page. - While in normal operation, pressing this button selects the	prog	ress.	iy anu r ieu wili lia		nat turning is lif		
F-2000M-W-X-V-7	TYPE CODING	V Up/	- While in normal operation, these buttons can be used to	After calc	r a few cycle ulated PID p	es of oscillation the parameters Pb, 1E	e tuning is comp and dŁ are stor	oleted and the red.		
W Relay/SSR 0 No Relay	X     Analog Output     Y     Z     Operating Voltage       0     No Output     0     0     85-265 V AC/85-375 V DC       4     4     20     20 V AC/85-375 V DC	Down Buttons	edit the control set point (Automatic mode) or manual output (Manual mode). - While in configuration, these buttons can be used to select	U Whil oper	e the Auto-to ating power	uning in progress of the controller i	if RL parameter s interrupted Au	is set the <i>oFF</i> or ito-tune progress is		
2 2 Relays 3 1 Pulse for SSR	1   1 Analog Output]   1   20-60 V AC/20-85 V DC		the configuration pages and to edit the parameters.	stop	ped and old	PID values are re	etained.			
4 1 Relay,1 Pulse for SS	R	0 160		If for any r	eason Auto-	MANUAL T	UNING tisfactory result	s, the controller		

### WIRING CONNECTION



Alarm State Low Alarm Absolute

R ISP or R25P > 0 R ISP or R25P < 0 Alarm State

R2Fb

Lo

can be tuned manually. There are a number of standard methods for manual tuning. The one described here is the Ziegler-Nichols method. With the process at its normal running temperature:

1- Set the IL, dL and HY5 parameters in LUnE page as D.



- 2- If of parameter in page of F is set to rL I, then set the ft parameter 2.
- <sup>3-</sup> Ignore the fact that the temperature may not settle precisely at the set point.
- 4- If the temperature is stable, reduce the proportional band Pb so that the temperature just starts to oscillate. If the temperature is already oscillating, increase the proportional band until it just stops oscillating. Allow enough time between each adjustment for the loop to stabilize. Make a note of the proportional band value (B) and the period of oscillation (T). oscillation (T).
- 5- Set the Pb, IL and dL parameters values according to the calculations given below.

Type of Control	Proportional Band ( <sup>Pb</sup> )	Integral Time (た)	Derivative Time (러노)
Р	2xB	0	0
PI	2.2xB	0.8xT	0
PID	1.7xB	0.5xT	0.12xT

# CE

- This controller complies with the European Low Voltage Directive 73/23/EEC, by the application of safety standard TS 2418 EN 61010-1. (Pollution degree 2)
- □ This controller complies with the EMC Directive 89/336/EEC, by the application of EMC standard TS EN 61326.

### **OPERATOR PAGES**

- U When the controller power is switched on, it runs through a self-test sequence for about 2 seconds and displays the version number and then enters into normal operation.
- □ The controller has two basic modes of operation: - Automatic mode in which the output is automatically adjusted to maintain the process value at the control set point. - Manual mode in which one can adjust the output independently of the control set point.
- F led indicates the operation mode of the controller. It lights while controller is in manual mode.
- operation, toggles between automatic and manual mode. This operation is disabled if the PL parameter in page PrEC is set to d5b or if the EntL parameter in oEnF page is set other than P Id.
- □ In normal operation the process value is displayed in the upper display, the control set point (Automatic mode) or manual output (Manual mode) is displayed in the lower display.
- The normal operation state and the frequently used parameters are in the operator page. These parameters can be accessed by D button.
- □ The parameters in the operator page differ according to the operation mode

AUTC Displa	MATIC MODE by Explanation	Unit	Access Conditions	s Key	Key Function/ Setting Interval
23.	Process Value	EU			
0.0	Control Set Point	EU		💌 / 🔺	SPLL - SPHL
ەترە ۵.0	Manual Output	%			
R 158 0.0	Alarm-1 Set Point	EU	R IĿ₽⊭ oFF	♥/▲	-199.9 - 999.9
8258 0.0	Alarm-2 Set Point	EU	R2Ŀ₽⊭ ₀FF	♥/▲	499.9 - 999.9

MANI Displa	JAL MODE y Explanation	Unit	Access Conditions	Key	Key Function/ Setting Interval
20.0	Process Value	EU			
0.0	Manual Output	%		🛡 / 🔺	oLL - oHL
5P 0.0	Control Set Point	EU		▼/▲	SPLL - SPHL
R ISP 0.0	Alarm-1 Set Point	EU	R IE₽⊭ oFF	♥/▲	499.9 - 999.9
8258 0.0	Alarm-2 Set Point	EU	R2Ŀ₽≠ ₀FF	▼/▲	499.9 - 999.9





Input to Configuration Pages

- $\hfill\square$  The fundamental characteristics of the controller are specified in configuration pages. These pages:
  - LUnE = PID Tuning Page
  - REnF = Alarm Configuration Page
  - oEnF = Control and Output Configuration Page
  - $GE_{nF} = General Configuration Page$
  - PrEL = Security Adjustment Page ELbr = Calibration Page
- $\square$  In order to access the configuration pages,  $\mathbb H$  and  $\mathbb D$  buttons are pressed simultaneously.
- □ After this operation PRG led lights and Lod message and D are displayed in the upper and lower displays respectively
- $\hfill\square$   $\hfill\blacksquare$  and  $\hfill\blacksquare$  buttons are used to adjust the security code in the lower display. When 🖵 button is pressed LUnE page is accessed.
- □ The factory setting of the security code is "10".
- □ The security code is defined by the parameter 5Lod in PrEL page. □ If the entered security code is correct all the configuration pages can be accessed and all the parameters in the configuration pages

### Alarm Configuration Page (PRGE\_REnF)

Displa	ay Explanation	Unit	Access Conditions	Key	Key Function
R IEP oFf	Alarm-1 Type	Table 1	CnEL=oFF or o[r≠ rL	♥/▲	Table 1
Я ІНЧ 0.5	Alarm-1 Hysteresis	EU	R IŁ₽ oFF	♥/▲	0.0 - 999.9
R ILE oFf	Alarm-1 Lock <sup>(1)</sup>		R IŁ₽ oFF	♥/▲	on / oFF
R2EP 6F#	Alarm-2 Type	Table 1		▼/▲	Table 1
82XY 0.5	Alarm-2 Hysteresis	EU	R2£₽ oFF	▼/▲	0.0 - 999.9
R2LE oF#	Alarm-2 Lock <sup>(1)</sup>		R2£₽ ₀FF	▼/▲	on / oFF

(1) Pressing I button acknowledges the latched alarms if RXLL is on while in normal operation.

### Control and Output Configuration Page (PRGE:oEnF)

Displa	explanation	Unit	Access Conditions	Key :	Key Function Setting Interva
Entl onof	Control Type	Table 2		▼/▲	Table 2
o[r rL]	Output Circuit	Table 3	[nt⊭ oFF	▼/▲	Table 3
Roñ L In	Analog Output Mode	Table 4	Entl=P Id and oEr=RoE	▼/▲	Table 4
[F rEu	Control Form		[nt⊭ oFF	▼/▲	d Ir (Direct) rEu (Reverse)
oll 0.0	Minimum Output	%	Entl = Pid	▼/▲	0.0 - oHL
6HL 100.0	Maximum Output	%	Entl = Pid	▼/▲	oll - 100.0
ь IRS 50,0	Output Offset Value	%	Entl = Pid	▼/▲	0.0 - 100.0
۲۲ ۲	Control Period	s	Entl=Pid and (oEr=rl) Ron=Pyn)	♥/▲	1 - 240
ō8r 0-20	mA Output Scale	mA	Entl=oFF or oFr=rl1 or Ron=lIn	♥/▲	Table 7
- ELL 0.0	Retransmission Low Limit	EU	C∩ŁL=oFF or oCr≠ RoC	▼/▲	499 <u>.</u> 9 - 999.9
- E HL 400.0	Retransmission High Limit	EU	C∩EL=oFF or oCr≠ RoC	▼/▲	499.9 - 999.9

### General Configuration Page (PRGE\_GEnF)

Displa	y Explanation	Unit	Access Conditions	Key :	Key Function Setting Interva
InPE H	Input Type	Table 5		▼/▲	Table 5
dP i	Decimal Point <sup>(1)</sup>			▼/▲	0 - 3
26ro 0.0	Linear Input Scale Low Limit	EU	I∩PL= Linear	▼/▲	-199.9 - 999.9
5PRn 100.0	Linear Input Scale High Limit	EU	I∩PL= Linear	▼/▲	-199.9 - 999.9
Un IE ec	Temperature Unit <sup>(2)</sup>		I∩PE= TC / RT	▼/▲	₽⊑ (°C) ₽F (°F)
In5 0.0	Input Offset Value	EU		▼/▲	-199.9 - 999.9
FLEr 0.5	Input Filter Coefficient	EU		▼/▲	0. 1 - 10.0
Sbr Н I	Sensor Break Case	Table 6	I∩PL ≠ miliamper	▼/▲	Table 6
5PLL 199.9	Set Point Low Limit	EU		▼/▲	499.9 - SPHL
5PHL 999.9	Set Point High Limit	EU		▼/▲	SPLL - 999.9
SPrr 0.0	Set Point Ramping Rate	EU/ min		♥/▲	0.0 - 60.0
Rr D	Auto Return Time	s		▼/▲	0 - 25 <sup>(3)</sup>

# Security Adjustment Page (PRGE\_PrEC)

Displa	y Explanation	Unit	Conditions	Key	Setting Interva
dPL 4	Parameter Access Level	Table 8		▼/▲	Table 8
RPL Z	Parameter Edit Level	Table 9		▼/▲	Table 9
77 77 77	Manual Mode Select			▼/▲	Ель (Enable) d5ь (Disable)
CPL dSb	Calibration Page Access			▼/▲	Ель (Enable) d5ь (Disable)
50 od 10	Password Set Value <sup>(1)</sup>			▼/▲	-199.9 - 999.9

(1) Factory setting of password is "10".

### Calibration Page (PRGE:CLbr)

Displa	y Explanation	Unit	Access Conditions	Key	Key Function/ Setting Interva
50.ñu 5848	50 mV Calibration <sup>(1)</sup>			₩▼	Save Calibration
0.350 64	Type K 0°C Calibration <sup>(2)</sup>			*	Save Calibration Value
390.7 6523	390 Calibration (3)			₩▼	Save Calibration Value
20,58 678	20 mA Calibration (4)			₩▼	Save Calibration Value
ני ה 120	Current Output Calibration (4 mA) <sup>(5)</sup>			♥/▲	600 - 900
Co2C 3424	Current Output Calibration (20 mA) <sup>(6)</sup>			▼/▲	3000 - 3800

#### O The basic calibration of the controller is highly stable

and set in the factory. Any erroneous operation in the *CRLb* page will corrupt the calibration parameter, and measurements will be faulty. The calibration parameters of the controller can be reinstalled in the CRLb page. If accurate calibration devices are not available, entering to the CRLb page is not advised.

(1) Set the calibrator as a milivolt source and adjust the calibrator output 50.000 mV. Apply the calibrator output to the input terminals 9(+) and 10(-) of the controller. Select this parameter and press  ${\mathbb H}$  and  ${\mathbb V}$  buttons simultaneously to store the parameter.

(2) Set the calibrator to Type K thermocouple and adjust the calibrator output 0.00 °C. Apply the calibrator output to the input terminals 9(+) and 10(-) of the controller. Select this parameter and press  $\mathbb{X}$  and  $\mathbb{T}$  buttons simultaneously to store the parameter.

(3) Set the calibrator as a resistance source and adjust the calibrator output 390.00 Short circuit the terminals 9 and 10 of the controller. Apply the calibrator output to the input terminals 10 and 12 of the controller. Select this parameter and press 🗷 and 💌 buttons simultaneously to store the parameter.

(4) Set the calibrator as a miliamper source and adjust the calibrator output 20.00 mA. Apply the calibrator output to the input terminals 10(-) and 11(+) simultaneously to store the parameter.

(5) Set the calibrator as a miliamper meter. Connect the output terminals 7(+) and 8(-) of the controller to the calibrator input. Select this parameter and using  $\overline{\bullet}$  and  $\blacktriangle$  buttons adjust the parameter until the calibrator reading is equal to 4.00 mA. Press  $\square$  or  $\mathbb R$  button to store the parameter.

(6) Set the calibrator as a miliamper meter. Connect the output terminals  $\dot{7}(+)$  and 8(-) of the controller to the calibrator input. Select this parameter and using  $\overline{\bullet}$  and a buttons adjust the parameter until the calibrator reading is equal to 20.00 mA. Press ☐ or ₭ button to store the parameter.

### <u>Tables</u>

Table 1	Alarm Types	Tab	le 7 mA Output Scale
oFF	Off	8 -	20 0 - 20 mA
Lo	Low Alarm (Absolute)	4 -	20 4 - 20 mA
ні	High Alarm (Absolute)		
Lod	Low Deviation (Relative)	Tab	le 8 Parameter Access Level
H IG	High Deviation (Relative)	0	Only process value can be
Lob	Band Alarm (In)		accessed.
н 15	Band Alarm (Out)	1	accessed.
Table 2	Control Types	2	Operator page parameters can be accessed.
oFF	None	5	եՍոЕ page parameters can be
onoF	On-Off Control		accessed.
P Id	PID Control	ч	REnF page parameters can be accessed.
Table 3	Output Circuit	5	DEAF page parameters can be accessed.
rL I	Relay 1		GEnF page parameters can be
RoC	Analog Output	6	accessed.

- can be edited. Otherwise dPL and RPL parameters in PrEL page define the access and edit levels of parameters.
- $\square$   $\blacksquare$  and  $\blacksquare$  buttons are used to select the configuration pages while PRGE message is displayed in the upper display.  $\mathbb D$  button select the parameters in a page sequentially.  $\ensuremath{\mathbb{D}}$  button returns to the top of the page if it pressed for duration of
  - 2 seconds, while in configuration pages.
  - B button reverts to normal operation, while in configuration pages.

### PID Tuning Page (PRGE:EUnE)

Display	y Explanation	Unit	Access Conditions	Key S	Key Function/ Setting Interval
RE off	Auto-Tune <sup>(1)</sup>		Entl = Pid	▼/▲	on / oFF
РЬ 20.0	Propotional Band	EU	EnEL = Pid	▼/▲	0. 1 - 999.9
1E 28	Integral Time	s	EnEL = Pid	▼/▲	0 - 3600
d£ ר	Derivative Time	s	EnEL = Pid	▼/▲	0 - 3600
НУ5 0.5	Hysteresis	EU	[n£L≠ oFF	▼/▲	0.0 - 999.9
(1) Auto-tune operation is inhibited in manual mode.					

	_	,	 ,
- 1	I		 
- 1	25 1		
- 1	' - '		 
- 1		Looding Eastery Settings (*)	 (-) ((+)) = - (-) =
- 1		; Loading Factory Settings	
- 1		, Loading Paolory Collingo	
- 1			
- 1	000		
_	· · ·	•	 

(1) When the *dP* parameter is edited, all the parameters with EU unit should be readjusted.

(2) The EU (Engineering Unit) used in tables, thermocouples and resistance thermometer input type units °C or °F, and for linear inputs types, are the controlled measurement unit.

(3) The value of *R*<sub>r</sub> parameter defines the auto return time to normal operation, if there is no button operation. If it is set the zero, auto return is disabled.

(4) The factory settings of the parameters are given in "Display" column (except the LRLb page). The parameter values in the LRLb page are the typical.

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KY-2000M-1108-0

Table 4 Analog Output Mode			Table 9 Parameter Edit Level		
Lin	Linear		٥	None of the parameters can	
PYň	PWM			be edited.	
			1	Only set value can be edited.	
Table 5 Input Types			2	Operator page parameters car	
Ь	Type B (TC)			be edited.	
Ε	Type E (TC)		3	Eline page parameters can be	
ل	Type J (TC)		ч	REAF page parameters can be edited.	
F	Type K (TC)				
L	Type L (TC)		5	oEnF page parameters can be	
n	Type N (TC)		Ĺ	edited.	
r	Type R (TC)		5	Lin F page parameters can be	
5	Type S (TC)				
٤	Type T (TC)		In Table 8 and Table 9 levels with arge numerials covers all previous levels.		
U	Type U (TC)				
PE	Pt-100 (RT)				
0580	0-20 mA (Linear)				
4820	4-20 mA (Linear)				
0.50	0-50 mV (Linear)				
000 1	0.0-1.0 V (Linear)				
0002	0.2-1.0 V (Linear)				

#### Table 6 Sensor Break Case

Lo Lower The Process Value H | Higher The Process Value

Falameter Luit Level
ne of the parameters can
edited.
ly set value can be edited.
perator page parameters can edited.