

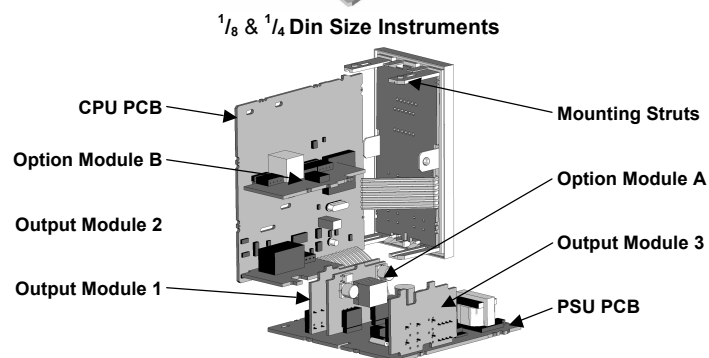
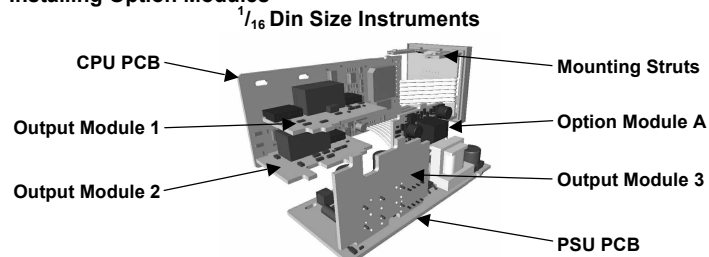
CAUTION: Installation should be only performed by technically competent personnel. Local Regulations regarding electrical installation & safety must be observed.

1. INSTALLATION

The models covered by this manual have three different DIN case sizes (refer to section 10). Some installation details vary between models. These differences have been clearly shown.

Note: The functions described in sections 2 thru 9 are common to all models.

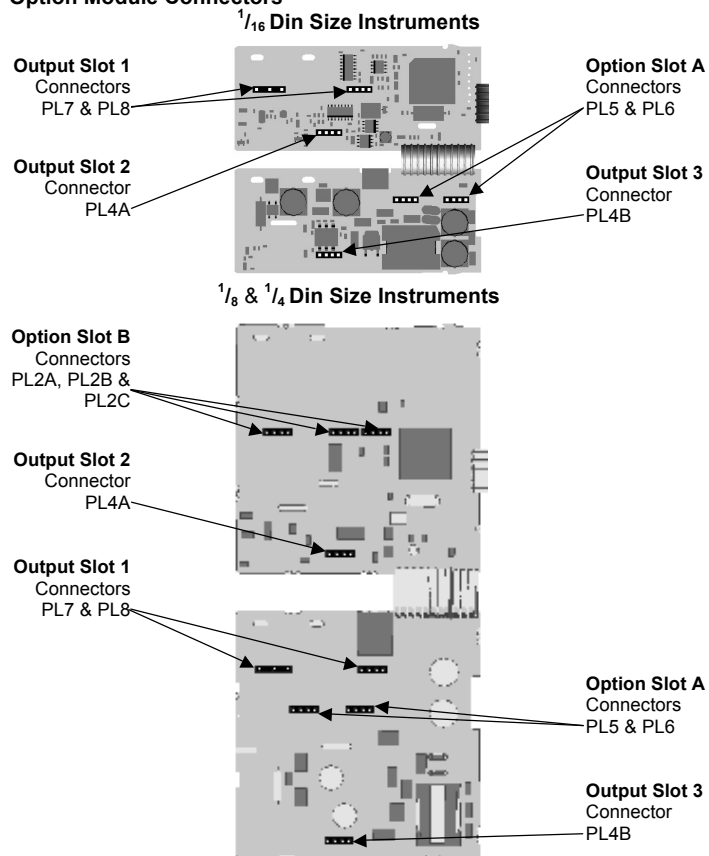
Installing Option Modules



- To access modules 1, A or B, first detach the PSU and CPU boards from the front by lifting first the upper, and then lower mounting struts. Gently separate the boards.
- Plug the required option modules into the correct connectors, as shown below.
 - Locate the module tongues in the corresponding slot on the opposite board.
 - Hold the main boards together while relocating back on the mounting struts.
 - Replace the instrument by aligning the CPU and PSU boards with their guides in the housing, then slowly push the instrument back into position.

Note: Option modules are automatically detected at power up.

Option Module Connectors



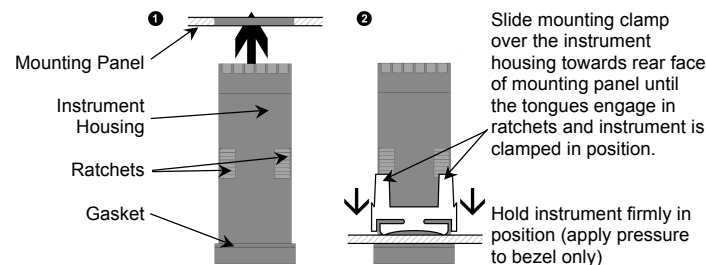
Panel-Mounting

The mounting panel must be rigid, and may be up to 6.0mm (0.25inch) thick. Cut-out sizes are:

Cut-Out Dim A
1/16 & 1/8 Din = 45mm
1/4 Din = 92mm

Cut-Out Dim B
1/16 Din = 45mm
1/8 & 1/4 Din = 92mm

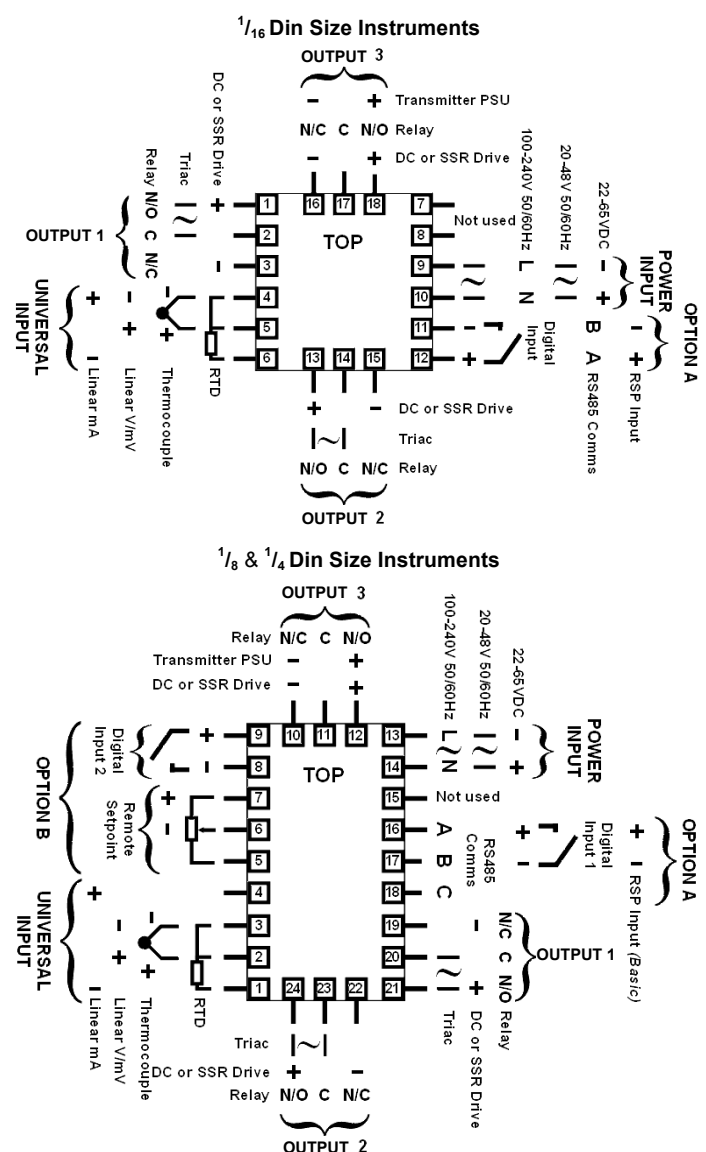
For *n* multiple instruments mounted side-by-side, cut-out A is 48*n*-4mm (1/16 & 1/8 Din) or 96*n*-4mm (1/4 Din)



CAUTION: Do not remove the panel gasket; it is a seal against dust and moisture.

Rear Terminal Wiring

USE COPPER CONDUCTORS (EXCEPT FOR T/C INPUT)
Single Strand wire gauge: Max 1.2mm (18SWG)



These diagrams show all possible option combinations. The actual connections required depends on the exact model and options fitted.

CAUTION: Check information label on housing for correct operating voltage before connecting supply to Power Input
Fuse: 100 – 240V ac – 1amp anti-surge
24/48V ac/dc – 315mA anti-surge

Note: At first power-up the message `50t0 ConF` is displayed, as described in section 7 of this manual. Access to other menus is denied until configuration mode is completed

2. SELECT MODE

Select mode is used to access the configuration and operation menu functions. It can be accessed at any time by holding down **↵** pressing **↑**. In select mode, press **↑** or **↓** to choose the required mode, press **↵** to enter. An unlock code is required to prevent unauthorised entry to Configuration, & Setup modes. Press **↑** or **↓** to enter the unlock code, then press **↵** to proceed.

Mode	Upper Display	Lower Display	Description	Default Unlock Codes
Operator	OPtr	SLCt	Normal operation	None
Set Up	SEtP	SLCt	Tailor settings to the application	10
Configuration	ConF	SLCt	Configure the instrument for use	20
Product Info	inFo	SLCt	Check manufacturing information	None
Auto-Tuning	REUn	SLCt	Invoke Pre-Tune or Self-Tune	0

Note: The instrument will always return automatically to Operator mode if there is no key activity for 2 minutes.

3. CONFIGURATION MODE

First select Configuration mode from Select mode (refer to section 2). Press **↵** to scroll through the parameters, then press **↑** or **↓** to set the required value. Press **↵** to accept the change, otherwise parameter will revert to previous value. To exit from Configuration mode, hold down **↵** and press **↑**, to return to Select mode.

Note: Parameters displayed depends on how instrument has been configured. Refer to user guide (available from your supplier) for further details. Parameters marked * are repeated in Setup Mode.

Parameter	Lower Display	Upper Display	Adjustment range & Description	Default Value
Input Range/Type	inPt		See following table for possible codes	JC
Code	Input Type & Range	Code	Input Type & Range	Code
bC	B: 100 - 1824 °C	PC	K: -128.8 - 537.7 °C	P24F
bF	B: 211 - 3315 °F	PF	K: -199.9 - 999.9 °F	P24F
cC	C: 0 - 2320 °C	nC	N: 0 - 1399 °C	PtC
cF	C: 32 - 4208 °F	nF	N: 32 - 2551 °F	PtF
eC	E: -100 - 1000 °C	rC	R: 0 - 1759 °C	Pt_c
eF	E: -148 - 1832 °F	rF	R: 32 - 3198 °F	Pt_f
e_c	E: -100.0 - 999.9 °C	S_c	S: 0 - 1762 °C	D_20
e_f	E: -148.0 - 999.9 °F	S_f	S: 32 - 3204 °F	4_20
Jc	J: -200 - 1200 °C	tC	T: -240 - 400 °C	D_50
Jf	J: -328 - 2192 °F	tF	T: -400 - 752 °F	10_50
J_c	J: -128.8 - 537.7 °C	t_c	T: -128.8 - 400.0 °C	0_5
J_f	J: -199.9 - 999.9 °F	t_f	T: -199.9 - 752.0 °F	1_5
Kc	K: -240 - 1373 °C	P24C	PIRh20% vs. 40%: 0 - 1850 °C	D_10
Kf	K: -400 - 2503 °F	P24F	PIRh20% vs. 40%: 0 - 1850 °C	2_10

Note: Decimal point shown in table indicates temperature resolution of 0.1°

Parameter	Lower Display	Upper Display	Adjustment range & Description	Default Value
Scale Range Upper Limit	rUL		Scale Range Lower Limit +100 to Range Maximum	Range max (Lin=1000)
Scale Range Lower Limit	rLL		Range Minimum to Scale Range Upper Limit -100	Range min (Linear=0)
Decimal point position	dPoS		0=XXXX, 1=XXX.X, 2=XX.XX, 3=X.XXX (non-temperature ranges only)	1
Control Type	CtYP		Primary only	5n9L
Primary Output Control Action	CtrL		Primary & Secondary (e.g. heat & cool)	rEU
Alarm 1 Type	RLA1		Reverse Acting	rEU
High Alarm 1 value*	PhA1		Direct Acting	rEU
Low Alarm 1 value*	PLA1		Process High Alarm	P_Hi
Band Alarm 1 value*	bAL1		Process Low Alarm	P_Lo
Dev. Alarm 1 value*	dAL1		Deviation Alarm	P_Hi
Alarm 1 Hysteresis*	AHY1		Band Alarm	bRNd
Alarm 2 Type*	RLA2		No alarm	nonE
High Alarm 2 value*	PhA2		Range Minimum to Range Maximum in display units	Range Max
Low Alarm 2 value*	PLA2		1 LSD to span from setpoint in display units	5
Band Alarm 2 value*	bAL2		+/- Span from setpoint in display units	5
Dev. Alarm 2 value*	dAL2		1 LSD to full span in display units	1
Alarm 2 Hysteresis*	AHY2		Options as for alarm 1	Options as for alarm 1

Parameter	Lower Display	Upper Display	Adjustment range & Description	Default Value
Dev. Alarm 2 Value*	dAL2		Options as for alarm 1	5
Alarm 2 Hysteresis*	AHY2		Options as for alarm 1	1
Loop Alarm	LAEn		d,5R (disabled) or EnRb (enabled)	d,5R
Loop Alarm Time*	LAEt		1 sec to 99 mins. 59secs	99_59
Alarm Inhibit	Inhi		nonE No alarms Inhibited	nonE
			ALA1 Alarm 1 inhibited	
			ALR2 Alarm 2 inhibited	
			both Alarm 1 and alarm 2 inhibited	
			Pr_i Primary Power	
			SEc Secondary Power	
			AL_d Alarm 1, Direct	
			AL_r Alarm 1, Reverse	
			AL_d Alarm 2, Direct	
			AL_r Alarm 2, Reverse	
			LP_d Loop Alarm, Direct	
			LP_r Loop Alarm, Reverse	
			OR_d Logical Alarm 1 OR 2, Direct	
			OR_r Logical Alarm 1 OR 2, Reverse	
			Ad_d Logical Alarm 1 AND 2, Direct	
			Ad_r Logical Alarm 1 AND 2, Reverse	
			rEt5 Retransmit SP Output	
			rEtP Retransmit PV Output	
Linear Output 1 Range	LYP1		0_5 0 to 5 V DC output	
			0_10 0 to 10 V DC output	
			2_10 2 to 10 V DC output	0_10
			0_20 0 to 20 mA DC output	
			4_20 4 to 20 mA DC output	
Retransmit Output 1 Scale maximum	ro1H		-1999 to 9999 (display value at which output will be maximum)	Range max
Retransmit Output 1 Scale minimum	ro1L		-1999 to 9999 (display value at which output will be minimum)	Range min
Output 2 Usage	USE2		As for output 1	Sec or AI2
Linear Output 2 Range	LYP2		As for output 1	0_10
Retransmit Output 2 Scale maximum	ro2H		-1999 to 9999 (display value at which output will be maximum)	Range max
Retransmit Output 2 Scale minimum	ro2L		-1999 to 9999 (display value at which output will be minimum)	Range min
Output 3 Usage	USE3		As for output 1	AL_d
Linear Output 3 Range	LYP3		As for output 1	0_10
Retransmit Output 3 Scale maximum	ro3H		-1999 to 9999 (display value at which output will be maximum)	Range max
Retransmit Output 3 Scale minimum	ro3L		-1999 to 9999 (display value at which output will be minimum)	Range min
Display Strategy	d,5P		1, 2, 3, 4, 5 or 6 (refer to section 8)	1
Serial Communications Protocol	PrOt		AScI ASCII	80bn
			B0bn Modbus with no parity	
			B0bE Modbus with Even Parity	
			B0bO Modbus with Odd Parity	
Serial Communications Bit Rate	bAUd		1_2 1.2 kbps	
			2_4 2.4 kbps	
			4_8 4.8 kbps	4_8
			9_6 9.6 kbps	
			19_2 19.2 kbps	
Comms Address	RdDr		1 to 255 (Modbus), 1 to 99 (ASCII)	1
Comms Write	CoEn		r_B0 Read/Write	r_B0
			r_D Read only	
Digital Input 1 Usage	d,91		d,51 Setpoint 1 / Setpoint 2 select*	d,51
			d,AS Automatic / Manual select	
Digital Input 2 Usage	d,92		d,51 Setpoint 1 / Setpoint 2 select*	d,51
			d,AS Automatic / Manual select	
			d,r5 Remote / Local setpoint select	

Note: d,92 has priority over d,91 if both are configured for the same usage. If d,91 or d,92 = d,51 the remote setpoint input is disabled.

Continued on next page...

Parameter	Lower Display	Upper Display	Adjustment range & Description	Default Value
Remote Setpoint Input Range	r _{INP}	0..20	0 to 20 mA DC input	0..10
		4..20	4 to 20 mA DC input	
		0..10	0 to 10 V DC input	
		2..10	2 to 10 V DC input	
		0..5	0 to 5 V DC input	
		1..5	1 to 5 V DC input	
		100	0 to 100mV DC input	
	Potentiometer (2KΩ minimum)			
RSP Upper Limit	r5PU		-1999 to 9999	Range max
RSP Lower Limit	r5PL		-1999 to 9999	Range min
RSP Offset	r5PO		Constrained within Scale Range Upper & Scale Range Lower limits	0
Configuration Lock Code	CLoc		0 to 9999	20

4. SETUP MODE

Note: Configuration must be completed before adjusting Setup parameters. First select Setup mode from Select mode (refer to section 2). The MAN LED will light while in Setup mode. Press \leftarrow to scroll through the parameters, then press \uparrow or \downarrow to set the required value. To exit from Setup mode, hold down \leftarrow and press \uparrow to return to Select mode. **Note: Parameters displayed depends on how instrument has been configured.**

Parameter	Lower Display	Upper Display	Adjustment Range & Description	Default Value
Input Filter Time Constant	F _{ILT}		OFF or 0.5 to 100.0 secs	2.0
Process Variable Offset	OFF5		±Span of controller	0
Primary Power	PPB ₀		Current power levels (read only)	N/A
Secondary Power	SPB ₀			
Primary Proportional Band	Pb _P		0.0% (ON/OFF) and 0.5% to 999.9% of input span	10.0
Secondary Proportional Band	Pb _S			
Automatic Reset (Integral Time)	AR _{5t}		1 sec to 99 mins 59 secs and OFF	5.00
Rate (Derivative Time)	rAR _{tE}		00 secs to 99 mins 59 secs	1.15
Overlap/Deadband	DL		-20 to +20% of Primary and Secondary Proportional Band	0
Manual Reset (Bias)	b _{RS}		0% (-100% if dual control) to 100%	25
Primary ON/OFF Differential	d _{IFP}		0.1% to 10.0% of input span centered about the setpoint. (Entered as a percentage of span)	0.5
Secondary ON/OFF Diff.	d _{IFS}			
Prim. & Sec. ON/OFF Differential	d _{IFF}			
Setpoint Upper Limit	SPUL		Current Setpoint to Range max	R/max
Setpoint Lower limit	SPLL		Range min to Current Setpoint	R/min
Primary Output Power Limit	OPUL		0% to 100% of full power	100
Output 1 Cycle Time	CL ₁		0.5, 1, 2, 4, 8, 16, 32, 64, 128, 256 or 512 secs.	32
Output 2 Cycle Time	CL ₂			
Output 3 Cycle Time	CL ₃			
High Alarm 1 value	PH _{R1}		Range Minimum to Range Maximum	R/max
Low Alarm 1 value	PL _{R1}			R/min
Deviation Alarm 1 Value	d _{RL1}		±Span from SP in display units	5
Band Alarm 1 value	b _{RL1}		1 LSD to span from setpoint	5
Alarm 1 Hysteresis	AH _{Y1}		1 LSD to full span in display units	1
High Alarm 2 value	PH _{R2}		Range Minimum to Range Maximum	R/max
Low Alarm 2 value	PL _{R2}			R/min
Deviation Alarm 2 Value	d _{RL2}		±Span from SP in display units	5
Band Alarm 2 value	b _{RL2}		1 LSD to span from setpoint	5
Alarm 2 Hysteresis	AH _{Y2}		1 LSD to full span in display units	1
Loop Alarm Time	LAB _t		1 LSD to full span in display units	99.59
Auto Pre-tune	AP _t			
Auto/manual Control selection	P _{oEn}		d _{ISA} (disabled) or En _{AB} (enabled)	d _{ISA}
Setpoint Select shown in Operator Mode	55En			
Setpoint ramp adjustment shown in Operator Mode	SP _r			
SP Ramp Rate Value	r _P		1 to 9999 units/hour or Off (blank)	Off
Setpoint Value	SP		Scale range upper to lower limits. (when dual or remote setpoint options are used, is replaced by SP ₁ & SP ₂ or before the legend indicates the currently active SP)	Scale Range Minimum
Local Setpoint Value	L _{5P}			
Setpoint 1 Value	S _{5P1}			
Setpoint 2 Value	S _{5P2}			
Setup Lock Code	SLoc		0 to 9999	10

5. AUTOMATIC TUNING MODE

First select Automatic tuning mode from Select mode (refer to section 2). Press \leftarrow to scroll through the modes, then press \uparrow or \downarrow to set the required value. To exit from Automatic tuning mode, hold down \leftarrow and press \uparrow to return to Select mode. Pre-tune is a single-shot routine and is thus self-disengaging when complete. If AP_t in Setup mode = En_{AB}, Pre-tune will attempt to run at every power up*. Refer to the full user guide (available from your supplier) for details on controller tuning.

Parameter	Lower Display	Upper Display	Default Value
Pre-Tune	PtUn	On or OFF. Indication remains OFF if automatic tuning cannot be used at this time*	OFF
Self-Tune	StUn		
Tune Lock	tLoc	0 to 9999	0

*Note: Automatic tuning will not engage if either proportional band = 0. Also, Pre-tune will not engage if setpoint is ramping, or the PV is less than 5% of input span from the setpoint.

6. PRODUCT INFORMATION MODE

First select Product information mode from Select mode (refer to section 2). Press \leftarrow to view each parameter. To exit from Product Information mode, hold down \leftarrow and press \downarrow to return to Select mode. **Note: These parameters are all read only.**

Parameter	Lower Display	Upper Display	Description
Input type	In ₁	Un ₁	Universal input
Option 1 module type fitted	OP _{n1}	nonE	No option fitted
		rLY	Relay output
		SSr	SSR drive output
		t _r	Triac output
Option 2 module type fitted	OP _{n2}	L _{in}	Linear DC voltage / current output
			As Option 1
Option 3 module type fitted	OP _{n3}	nonE	No option fitted
		rLY	Relay output
		SSr	SSR drive output
		L _{in}	Linear DC voltage / current output
Auxiliary Option A module type fitted	OP _{nA}	dc24	Transmitter power supply
		nonE	No option fitted
		r485	RS485 communications
Auxiliary Option B module type fitted	OP _{nB}	d _{IS1}	Digital Input*
		r5P ₁	Remote Setpoint Input (basic)*
Firmware type	FC _J	nonE	No option fitted
		r485	RS485 communications
Firmware issue	I ₅₅		Value displayed is firmware issue number
Product Revision Level	Pr _L		Value displayed is Product Revision level
Date of manufacture	d _{0m}		Manufacturing date code (mmyy)
Serial number 1	S _{n1}		First four digits of serial number
Serial number 2	S _{n2}		Middle four digits of serial number
Serial number 3	S _{n3}		Last four digits of serial number

7. MESSAGES & ERROR INDICATIONS

These messages indicate that an error has occurred or there is a problem with the process variable signal or its wiring. **Caution: Do not continue with the process until the issue is resolved.**

Parameter	Upper Display	Lower Display	Description
Instrument parameters are in default conditions	9ab0	on	Configuration & Setup required. This screen is seen at first turn on, or if hardware configuration has been changed. Press \leftarrow to enter the Configuration Mode, next press \uparrow or \downarrow to enter the unlock code number, then press \leftarrow to proceed
Input Over Range	CHH	Normal	Process variable input > 5% over-range
Input Under Range	CLL	Normal	Process variable input > 5% under-range
Input Sensor Break	OPE _n	Normal	Break detected in process variable input sensor or wiring
RSP Over Range	CHH	**	RSP input over-range
RSP Under Range	CLL	**	RSP input under-range
RSP Break	OPE _n	**	Break detected in RSP input signal
Option 1 Error	Err	OP _{n1}	Option 1 module fault
Option 2 Error		OP _{n2}	Option 2 module fault
Option 3 Error		OP _{n3}	Option 3 module fault
Option A Error		OP _{nA}	Option A module fault or RSP in both A & B
Option B Error		OP _{nB}	Option B module fault

8. OPERATOR MODE

This mode is entered at power on, or accessed from Select mode (see section 2). **Note: All Configuration mode and Setup mode parameters must be set as required before starting normal operations.** Press \leftarrow to scroll through the parameters, then press \uparrow or \downarrow to set the required value. **Note: All Operator Mode parameters in Display strategy 6 are read only (see in configuration mode), they can only be adjusted via Setup mode.**

Upper Display	Lower Display	Display Strategy and When Visible	Description
PV Value	Active SP Value	1 & 2 (initial screen)	PV and target value of selected SP. Local Setpoints are adjustable in Strategy 2
PV Value	Actual SP Value	3 & 6 (initial screen)	PV and actual value of selected SP (e.g. ramping SP value). Read only
PV Value	(Blank)	4 (initial screen)	Process variable only. Read only
Active SP Value	(Blank)	5 (initial screen)	Target value of selected setpoint only. Read only
SP Value	SP	1, 3, 4, 5 & 6 if digital input is not d _{IS1} and RSP not fitted	Target value of SP. Adjustable except in Strategy 6
SP1 Value	S _{5P1}	Digital input = d _{IS1} . lit if active SP = SP1	Target value of SP1. Adjustable except in Strategy 6
SP2 Value	S _{5P2}	Digital input = d _{IS1} . lit if active SP = SP2	Target value of SP2. Adjustable except in Strategy 6
Local SP Value	L _{5P}	RSP fitted. lit if the active SP = L _{5P}	Target value of local setpoint. Adjustable except in Strategy 6
Remote SP Value	r _{5P}	RSP fitted. lit if the active SP = r _{5P}	Target value of remote setpoint. Read only
d _{IS1} , L _{5P} or r _{5P}	SP ₅	RSP is fitted, digital input is not d _{IS1} and 55En is enabled in Setup mode	Selects local/remote active setpoint = local SP. r _{5P} = remote SP. d _{IS1} = selection via digital input (if configured). Note: selecting L _{5P} or r _{5P} will override digital input, active SP indication changes to Adjustable except in Strategy 6
Actual SP Value	SP _{rP}	r _P is not blank	Actual (ramping) value of selected SP. Read only
Ramp Rate	r _P	SP _r enabled in Setup mode	SP ramping rate, in units per hour. Adjustable except in Strategy 6
Active Alarm Status	AL _{5t}	When one or more alarms are active. ALM indicator will also flash	Alarm 2 active Alarm 1 active Loop Alarm active

Manual Control

If P_{oEn} is set to En_{AB} in Setup mode, manual control can be selected/de-selected by pressing the MAN key in Operator mode, or by changing the status of a digital input if d_{IS1} or d_{IS2} have been configured for d_{RS} in Configuration mode. While in Manual Control mode, the MAN LED indicator will flash and the lower display will show Pxxx (where xxx is the current manual power level). Switching to/from manual mode is via Bumpless Transfer. Press \uparrow or \downarrow to set the required output power. **Caution: Manual power level is not restricted by the power limit.**

9. SERIAL COMMUNICATIONS

Refer to the full user guide (available from your supplier) for details.

10. SPECIFICATIONS

UNIVERSAL INPUT

Thermocouple Calibration:	±0.1% of full range, ±1LSD (±1°C for Thermocouple CJC). BS4937, NBS125 & IEC584.
PT100 Calibration:	±0.1% of full range, ±1LSD. BS1904 & DIN43760 (0.00385Ω/°C²).
DC Calibration:	±0.1% of full range, ±1LSD.
Sampling Rate:	4 per second.
Impedance:	>10MΩ resistive, except DC mA (5Ω) and V (47kΩ).
Sensor Break Detection:	Thermocouple, RTD, 4 to 20 mA, 2 to 10V and 1 to 5V ranges only. Control outputs turn off.
Isolation:	Isolated from all outputs (except SSR driver). Universal input must not be connected to operator accessible circuits if relay outputs are connected to a hazardous voltage source. Supplementary insulation or input grounding would then be required.

REMOTE SETPOINT INPUT

Accuracy:	±0.25% of input range ±1 LSD.
Sampling Rate:	4 per second.
Sensor Break Detection:	4 to 20 mA, 2 to 10V and 1 to 5V ranges only. Control outputs turn off if RSP is the active SP.

Isolation: Slot A - Basic isolation, Slot B - Reinforced safety isolation from other inputs and outputs.

DIGITAL INPUTS

Volt-free(or TTL): Open(2 to 24VDC) = SP1, Local SP or Auto Mode, Closed(<0.8VDC) = SP2, Remote SP or Manual Mode. Isolation: Reinforced safety isolation from inputs and other outputs.

OUTPUTS

Relay

Contact Type & Rating: Single pole double throw (SPDT); 2A resistive at 120/240VAC. Lifetime: >500,000 operations at rated voltage/current. Isolation: Basic Isolation from universal input and SSR outputs.

SSR Driver

Drive Capability: SSR drive voltage >10V into 500Ω min. Isolation: Not isolated from universal input or other SSR driver outputs.

Triac

Operating Voltage: 20 to 280Vrms (47 to 63Hz). Current Rating: 0.01 to 1A (full cycle rms on-state @ 25°C); derates linearly above 40°C to 0.5A @ 80°C. Isolation: Reinforced safety isolation from inputs and other outputs.

DC

Resolution: 8 bits in 250mS (10 bits in 1s typical, >10 bits in >1s typical). Isolation: Reinforced safety isolation from inputs and other outputs.

Transmitter PSU

Power Rating: 20 to 28V DC (24V nominal) into 910Ω minimum resistance. Isolation: Reinforced safety isolation from inputs and other outputs.

SERIAL COMMUNICATIONS

Physical: RS485, at 1200, 2400, 4800, 9600 or 19200 bps. Protocols: Selectable between Modbus and West ASCII. Isolation: Reinforced safety isolation from all inputs and outputs.

OPERATING CONDITIONS (FOR INDOOR USE)

Ambient Temperature: 0°C to 55°C (Operating), -20°C to 80°C (Storage). Relative Humidity: 20% to 95% non-condensing. Supply Voltage and Power: 100 to 240VAC ±10%, 50/60Hz, 7.5VA (for mains powered versions), or 20 to 48VDC 50/60Hz 7.5VA or 22 to 65VDC 5W (for low voltage versions).

ENVIRONMENTAL

Standards: CE, UL, ULC, CSA. EMI: Complies with EN61326 (Susceptibility & Emissions). Safety Considerations: Complies with EN61010-1, UL61010-1 & CSA 22.2 No 1010.1 92. Pollution Degree 2, Installation Category II.

Front Panel Sealing: To IP66 (IP20 behind the panel).

PHYSICAL

Front Bezel Size: 1/16 Din = 48 x 48mm, 1/8 Din = 96 x 48mm, 1/4 Din = 96 x 96mm. Depth Behind Panel: 1/16 Din = 110mm, 1/8 & 1/4 Din = 100mm. Weight: 0.21kg maximum.

SUPPLEMENTARY INFORMATION FOR CSA

-Compliance shall not be impaired when fitted to the final installation. -Designed to offer a minimum of Basic Insulation only. -The body responsible for the installation is to ensure that supplementary insulation suitable for Installation Category II is achieved when fully installed. -To avoid possible hazards, accessible conductive parts of the final installation should be protectively earthed in accordance with EN6010 for Class 1 Equipment. -Output wiring should be within a Protectively Earthed cabinet. Sensor sheaths should be bonded to protective earth or not be accessible. -Live parts should not be accessible without the use of a tool. -When fitted to the final installation, an IEC/CSA APPROVED disconnecting device should be used to disconnect both LINE and NEUTRAL conductors simultaneously. -A clear instruction shall be provided to position the equipment so that it is difficult to operate the disconnecting device.

