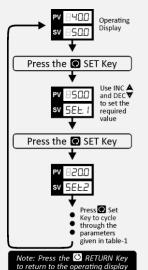
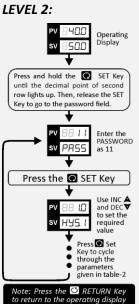
PROCESS CONTROLLER OPERATION MANUAL

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LEVEL 1:



from any parameter setting.



from any parameter setting.

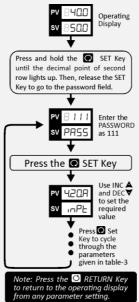
TABLE 1: LEVEL 1 PARAMETERS – SET POINTS

PARAMETER		RANGE & DEFAULT	DESCRIPTION	
SYMBOL	NAME	KANGE & DEFAULI	DESCRIPTION	
SEŁ. I	Set Point 1	SP.LL ≤ SET.1 ≤ SP.HL Default: 50	Set Point 1 can be set between set point low limit (SP.LL) & set point high limit (SP.HL).	
SEŁ.2	Set Point 2	SP.LL ≤ SET.2 ≤ SP.HL Default: 20	Set Point 2 can be set between set point low limit (SP.LL) & set point high limit (SP.HL).	
SEŁ.3	Set Point 3	SP.LL ≤ SET.3 ≤ SP.HL Default: 20	Set Point 3 can be set between set point low limit (SP.LL) & set point high limit (SP.HL).	
SEŁ.4	Set Point 4	SP.LL ≤ SET.4 ≤ SP.HL Default: 20	Set Point 4 can be set between set point low limit (SP.LL) & set point high limit (SP.HL).	

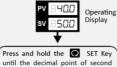
TABLE 2: LEVEL 2 PARAMETERS – OUTPUT PARAMETERS

PARAMETER		RANGE & DEFAULT	DESCRIPTION	
SYMBOL	NAME	KANGE & DEFAULI	DESCRIPTION	
H95.1	Hysteresis 1	0.1 ≤ HYS.1 ≤ 25.0 Default: 1.0	Hysteresis can be set between 0.1 to 25.0	
H95.2	Hysteresis 2	0.1 ≤ HYS.2 ≤ 25.0 Default: 1.0	Hysteresis can be set between 0.1 to 25.0	
H95.3	Hysteresis 3	0.1 ≤ HYS.3 ≤ 25.0 Default: 1.0	Hysteresis can be set between 0.1 to 25.0	
H9 <u>5</u> .4	Hysteresis 4	0.1 ≤ HYS.4 ≤ 25.0 Default: 1.0	Hysteresis can be set between 0.1 to 25.0	
o lFn	Output 1 Function	Options: 9 Modes Default: Heat	See Output Function Table for selecting desired output mode	
o2.Fn	Output 2 Function	Options: 9 Modes Default: Cool	See Output Function Table for selecting desired output mode	
o3£n	Output 3 Function	Options: 9 Modes Default: Alarm High	See Output Function Table for selecting desired output mode	
o4Fn	Output 4 Function	Options: 9 Modes Default: Alarm Low	See Output Function Table for selecting desired output mode	

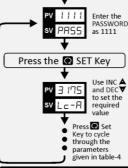
LEVEL 3:



LEVEL 4:



until the decimal point of second row lights up. Then, release the SET Key to go to the password field.



Note: Press the O RETURN Key to return to the operating display from any parameter setting.

TABLE 3: LEVEL 3 PARAMETERS – INPUT PARAMATERS

PARAMETER		RANGE & DEFAULT	DESCRIPTION	
SYMBOL	NAME	RANGE & DEFAULT	DESCRIPTION	
ınPE	Input Type	4.20.A – 4-20 mA 0.20.A – 0-20 mA 0.5.V – 0-5 V 0.10.V – 0-10V	It is a read only display. It describes the type of input. The input types available are: 4-20 mA, 0-20 mA, 0-5 V, 0-10 V, etc. Other inputs provided on request.	
d٩	Decimal Point	0 ≤ dP ≤ 3 Default: 1	The display resolution can be selected between 0 to 3 decimal points.	
Sh Æ	Shift/Offset	-50.0 ≤ Shif ≤ 50.0	It is used to correct for sensor errors.	
SPLL	Set Point Low Limit	Lo.Sc ≤ SP.LL ≤ Hi.Sc Default: Lo.Sc	This is safety feature. It is used for limiting the lowest value of the SET POINT that can be set by the operator.	
SPHL	Set Point High Limit	Lo.Sc ≤ SP.HL ≤ Hi.Sc Default: Hi.Sc	This is safety feature. It is used for limiting the highest value of the SET POINT that can be set by the operator.	
La.Sc	Low Scale	-199.9 ≤ Lo.Sc ≤ 25.0 Default: 0.0	It is the value to be displayed for the low range of input.	
H (Sc	High Scale	25.0 ≤ Lo.Sc ≤ 999.9 Default: 100.0	It is the value to be displayed for the high range of input.	

TABLE 4: LEVEL 4 PARAMETERS – CALIBRATION

PARAMETER		DANCE & DEFAULT	DECEDIATION	
SYMBOL	NAME	RANGE & DEFAULT	DESCRIPTION	
Lc-A	Low Range Calibration	Read Only	Instrument is shipped with factory calibration. Contact Supplier for calibration procedure if required.	
Нс-Я	High Range Calibration	Read Only	Instrument is shipped with factory calibration. Contact Supplier for calibration procedure if required.	

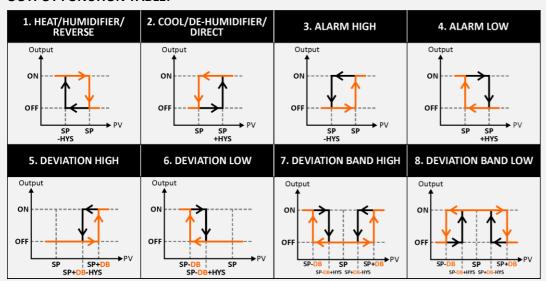




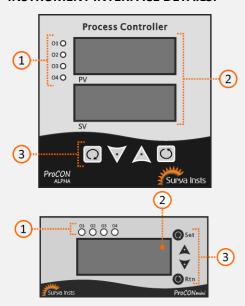
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OUTPUT FUNCTION TABLE:

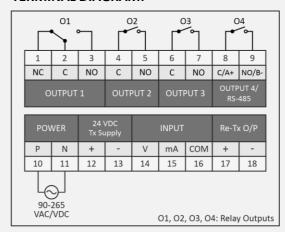


INSTRUMENT INTERFACE DETAILS:



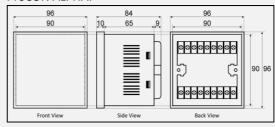
#	GROUP	SYMBOLS	DESCRIPTION
	O/P Relay Status Indicating LEDS	01	Output 1 Relay ON
1		02	Output 2 Relay ON
1		03	Output 3 Relay ON
		04	Output 4 Relay ON
2	Display	PV	Process Value: Displays the Sensor Values & Parameters
2	(4 x 7 Segment RED LED)	SV	Set Value: Displays the Set Point Value
		O	SET/ENTER Key
1	Keys	$\overline{\vee}$	DECREMENT Key
3		Δ	INCREMENT Key
		Q	RETURN Key

TERMINAL DIAGRAM:



DIMENSIONS:

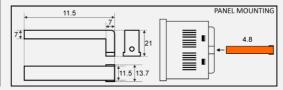
ProCON ALPHA:



ProCON mini:

96	84	96
		000000000
Front View	Side View	Back View

MOUNTING:



FUNCTION	PIN#	PIN N	AME
	1	N	2
Relay Output 1 (O1)	2	С	
	3	NO	
Rolay Output 3 (O3)	4	С	
Relay Output 2 (O2)	5	NO)
Rolay Output 3 (O3)	6	С	
Relay Output 3 (O3)	7	NO	
Dalar Ortant 4 (O4)/DC 405	8	С	A+
Relay Output 4 (O4)/RS-485	9	NO	B-
Power	10	Phase (P)	
Power	11	Neutral (N)	
24 VDC Transmitter Supply	12	+	
(Drives Load up-to 45 mA)	13	-	
	14	V	
INPUT	15	mA	
· · · · · · · · · · · · · · · · · · ·	16	Common	
Do Transmission Outnut	17	+	
Re-Transmission Output	18	-	

OPDEDING INFORMATIONS

ORDERING INFORMATION:					
ProCON S-A-B-C-D-E					
Α	Input Type	В		No. of Outputs	
1	4-20 mA	0		No Relay Output	
2	0-20 mA	1		1 Relay Output	
3	0-5 V	2		2 Relay Outputs	
4	0-10 V	3		3 Relay Outputs	
5	1-5 V	4	4 Relay Outputs		
6	2-10 V				
С	Re-Transmission O/P	D	Communication		
0	No Re-Tx O/P	0	None		
1	Re-Tx O/P Present	sent 1 RS-485		RS-485	
		2 TTL Communicatio		TL Communication	
E	Transmitter Supply	S		Size	
0	No Tx. Supply	ALPH	IA	96 * 96	
1	24 V Tx. Supply	mini		48 * 96	



