

FLP UNIVERSAL PROCESS CONTROLLER



Flameproof With SS Box

FLAME PROOF

Gas Group
Enclose Certification
Display Glass
Material of Constructions
Cable Entry

I IIA IIB IIC as per IS 2148/1981
C.M.R.I. Or CCOE
Clear Glass Thought Type A as per IS 2206
Aluminum Alloy
7 x 3/4 " ET

FEATURE

- ✦ Microprocessor Based Powerful & Highly Reliable Controller.
- ✦ Universal Input T/C, RTD, Linear Input Selection.
- ✦ Potential Free Relay Contact Output Up To 1 / 2 / 3 / 4 Nos.
- ✦ 0.1% Accuracy Of FSD.
- ✦ Isolated 0/4-20mA Process Value Retransmission Output.
- ✦ All Configurations And Calibration From Front Panel Keypad.
- ✦ Highly Communicative Serial Interface Facility (RS 232/485).
- ✦ Transmitter Loop Power Supply With Current Limit As Standard.
- ✦ Power Supply :230 V/110 V AC. Or 24 V/12 V DC.
- ✦ Optional GSM Mobile Connectivity.
- ✦ Fully Password Protected Operation.
- ✦ User Friendly Menu For Device Configurations & Calibration.
- ✦ Field Configurable.
- ✦ All Different Input In Single Controller.

APPLICATION

- ✦ All On/Off Control Application.
- ✦ Tank Level Controller.
- ✦ Oven, Boilers And Furnace Control Applications.
- ✦ Plastic Moulding Machines.
- ✦ Laboratory And Scientific Instrument.
- ✦ Packaging Machinery.



Weather Proof Housing-IP65

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TECHNICAL SPECIFICATION

INPUT	INPUT Type For Channel-1 & Channel-2	T/C	K, J, R, S, E, N, T
		RTD	Pt-100, Cu 53 (2 wire & 3 wire)
		Current	0 ~ 20 mA DC, 4~20 mA DC
		Voltage	0-5V/1-5V DC, 0.5 -2.5V/0- 10 V DC
		Special on demand :	0-75/200 mV & 0-1/10V/100/300 V AC/DC
		Resistance :-	0-75/200 mV 0-100/300V DC && 0-500 R , 0-1/5/10 K, 1M
	Transmitter Power Supply	24 V DC @ 30 mA Max, Isolated From I/P & O/P	
	Cold Junction Comp. & Sensor Break Indication	Software Base Automatic	
	Range Limits	As Per Input Range Table	
	Accuracy	+/- 0.1% Of Span For Linear & RTD, +/-0.25 % For T/C	
Input Impedance	>330 K For Voltage ,mV DC, And T/C, 100 R For Current		
INDICATION	Indication	PV & SV For UT102 & PV For UT101- LED 4 Digit 7 Segment Display.	
	Status Indication	LEDs For Relay Status & Communication	
	Alarm Modes	Very Low/Low/High/Very High	
CONTROL MODE	On Off Control	Relay / SSR	
	Dead Band Controls	High And Low Set Point For Level Application	
OUTPUT	Relay Output	NO - C - NC Contacts , 5A@240 V AC Resistive	
	SSR Output	1 / 2 / 3 / 4 Relays / SSR Output	
	Transmitter Power	24 V DC @ 20 mA , 12 V DC @ 20 mA	
	Retransmission Current & Voltage Outputs	2 Nos. 0~20/ 4~20 mA DC , 0~ 5 V , 0~ 1.0 V DC , 1~ 5V DC, Fully 3 Port Isolated	
COMMUNICATION	Communication Protocol & Method	Modbus RTU RS- 485/RS- 232 Communication	
	Programmable Parameter & Max No	Baud Rate, Parity , Node Address , Stop Bit & 0-256 Unit	
	Wireless Communication	GSM/GPRS Base Mobile(SMS) Communication	
PROGRAMMABLE PARAMETER	Set point / Hysteresis / High scale / Low Scale	Full Range As Per Input Selection	
	Relay Logic	F.S. High & Low Alarm, Dead Band Alarm	
	Display Resolution	-1999 to 9999 Fully Configurable For Linear Input	
	Programming Of Parameters	Through 4 Tactile Keys	
OTHER	Dimensions & Mounting	As Per Box Selection & Wall/Structure 2/2 Holes	
	(A) Supply Voltage (B) Power Consumption	(A) 110/230 V AC/24 V DC, 50/60 Hz (B) 4 Watts Maximum	
	Operating Ambient Temperature And Humidity	0~50 °C , And Humidity : Below 90%, Non Condensing	

ORDERING INFORMATION :

UT-10	1	2	3	4	5	6	7	8
Display	Size	Input	Ctrl. O/P	Retrs. O/P	TPS	Power	Comm.	
PV	96 X 96	Universal	None	None	12V DC	230V AC	None	
PV + SV	96 X 48 (H)	Fix	Relay	4-20mA	24V DC	110V AC	RS485	
	48 X 96 (V)	Type	SSR	0-10/5V	10V DC	24V DC	RS232	
			Special	Special			GSM	

Note : For Fix Input Plz Specified Input Type