

## FLP UNIVERSAL PROCESS CONTROLLER



**WALL MOUNTED DOUBLE  
COMPARTMENT- 3 Cable Entry**



**WALL MOUNTED ROUND**



**WALL MOUNTED DOUBLE  
COMPARTMENT- 2 Cable Entry**

### FEATURE

- ✦ Flame Proof Low Cost And Compact Size Controller.
- ✦  $\mu$ p Based Power, Full & Highly Reliable Controller.
- ✦ IIA, IIB, IIC (Optional) IP 65 As Per IS 2148/1981, Certified By C.M.R.I./CCOE.
- ✦ Universal Input T/C, RTD, Linear Input Selection.
- ✦ 1 Nos. Potential Free Relay Contact Output.
- ✦ 0.1% Accuracy Of FSD.
- ✦ Isolated 0/4-20mA Process Value Re-Transmission 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.
- ✦ Fully Password Protected Operation.

### APPLICATION

- ✦ IIA, IIB, IP 65 Zone On/Off Control Application.
- ✦ Pharmaceutical & API Plant.
- ✦ Process Parameters Displaying In Flame Proof Zone.
- ✦ Oil And Gas Plant.
- ✦ Petrochemical & Foundry Plant.
- ✦ Fertilizer Plant.

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TECHNICAL SPECIFICATION

INPUT	Input Type	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 - 5 V / 1 - 5 V / 0.5 -2.5V / 0 - 10 V DC
		Special On Demand	0-75/200 mV DC & 0-1/10/100/300 V AC/DC
			0-75/200 mV DC ,0-100/300V DC
	Resistance	0-500 R , 0-1/5/10 K, 1M	
	Transmitter Power Supply	24 V DC @ 30 mA DC Max, Isolated From I/P & O/P	
	Cold Junction Comp. & Sensor Break Ind.	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		
FLAME PROOF	Gas Group	I IIA IIB IIC as per IS 2148/1981 -	
	Enclose Certification	Enclosure Is Certified By C.M.R.I., CCOE	
	Cable Entry	3/4 Inch ET, 2 Nos. / 3 Nos.	
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 , 5 A @ 240 V AC Resistive	
	SSR Output	1 Relay / SSR Output	
	Transmitter Power	24 V DC @ 20 mA, 12 V DC @ 20 mA	
	Re-Transmission Current & Voltage Output	0 - 20 / 4 - 20 mA DC, 0 - 5 / 0 - 10 V / 1 - 5 V DC Isolated	
COMMUNICATION	Communication Protocol & Method	Modbus RTU RS- 485/RS- 232 Communication	
	Programmable Parameter	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	
	Parameter Programming	Through 4 Tactile Keys	
OTHER	Dimension & Mounting	FLP Wall Mount	
	(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	Temp. 0 - 50 °C, And Humidity: Below 90% Non Condensing	

ORDERING INFORMATION :

UT-101-F		1	2	3	4	5	6
Housing	Input	Ctrl. O/P	Re-Tra.O/P	TPS	Power		
Round	Universal	None	None	12 V DC	230V AC		
2 Cable Entry	Fix	Relay	4-20mA	24 V DC	110V AC		
3 Cable Entry	Type	SSR	RS-485	10 V DC	24V DC		
		Special					

Note : For Fix Input Plz. Specified Input Type