

PID CONTROLLER



UT-1548- 48 x 48



UT-1584- 48 x 96



UT-1596- 96 x 96



Flame Proof

FEATURE

- ✦ Microprocessor Based Powerful & Highly Reliable Controller.
- ✦ Universal Input T/C, RTD, Linear Input Selection.
- ✦ Potential Free Relay / SSR Output.
- ✦ 0.1% Accuracy Of FSD.
- ✦ Isolated 0/4-20 mA 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.
- ✦ Auto/Manual Tune 4-20 mA DC Control Output.
- ✦ Fully Password Protected Operation.
- ✦ Control Modes: Proportional, On-Off Asymmetric, On-Off Symmetric.
- ✦ Function Key : Selectable For Run/Stop Or Auto/Manual or None.
- ✦ Configurable: Band, Deviation, Sensor Break & Loop Break Alarms.



Weather Proof Housing-IP65

APPLICATION

- ✦ Auto Tune Control Application.
- ✦ Laboratory And Scientific Instrument.
- ✦ Tank Level Controller.
- ✦ Oven, Boilers And Furnace Control Applications.
- ✦ Plastic Moulding Machines.
- ✦ Packaging Machinery.

PID CONTROLLER

TECHNICAL SPECIFICATION

INPUT	Input Type	T/C	K, J, R, S, E, N, T
		RTD	Pt-100, Cu 53 (2Wire & 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 & 0-1 / 10V / 100 / 300 V AC/DC
			0-75 / 200 mV 0-100 / 300 V DC
	Resistance	0-500 R , 0-1 / 5 / 10 K, 1 M	
	Transmitter Power Supply	24 V DC @ 30 mA 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, and T/C, 100 R For Current		
INDICATION	Indication	PV & SV LED 4 digit 7 Segment Display	
	Status Indication	LEDs for Relay status 4-20 Ma control Output & Communication	
	Alarm Modes	Very Low/Low/High/very High	
CONTROL MODE	PID/ On Off Control	4 - 20 mA DC, Relay or SSR	
	Special Controls	Auto & Manual Tuning	
OUTPUT	Relay Output	NO - C - NC Contacts , 5A@240 V AC Resistive	
	SSR Output	1 SSR Output	
	Transmitter Power	24 V DC @ 20 mA & 12 V DC @ 20 mA	
	Retransmission Current & Voltage Outputs	0 - 20/ 4 - 20 mA DC, 0 - 5/ 0 - 10/ 1 - 5 V DC Fully 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 PARAMETERS	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	96 x 96 , 96 x 48, 48 x 48 All Are Panel Mounted.	
	(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-15		1	2		3		4		5		6		7	
Size		Input		Ctrl. O/p		Re-tra.o/p		Alarm		Power		Comm.		
96 X 96	96	Universal	U	None	N	None	N	1-Relay	1	230V AC	1	None	N	
48 X 48 (H)	48	FIX	F	Relay	R	4-20mA	C	2-Relay	2	110V AC	2	RS485	4	
48 X 96 (V)	84	TYPE		SSR	S	0-10/5V	V			24V DC	4	RS232	2	
				4-20 mA	C	Special	S							