

UT-15XX

PID CONTROLLER



UT-1548- 48 x 48



UT-1584- 48 x 96



UT-1596- 96 x 96



Flame Proof

● Available size : 96x96, 48x48, 48x96(V)

● External Box : Ex. Flameproof / M S or S S Box

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 0/4-20mA 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 :230V/110V AC. Or 24V/12V DC
- ✦ Auto/Manual tune 4-20 ma 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.
- ✦ Tank level controller.
- ✦ Plastic moulding machines.
- ✦ Laboratory and scientific instrument.
- ✦ Oven, boilers and furnace control applications.
- ✦ Packaging machinery.



TECHNICAL SPECIFICATION

INPUT	Input Type	T/C	K, J, R, S, E, N, T
		RTD	Pt-100, Cu53 (2wire & 3 wire)
		Current	0 ~ 20mA DC, 4~20mA DC
		Voltage	0-5V/1-5V, 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 0-100/300V DC Resistance :- 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 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 and SSR	
	Special controls	Auto and Manual tuning.	
OUTPUT	Relay Output	NO - C - NC Contacts , 5A@240 V AC Resistive	
	SSR Output	1 / 2 Relays / SSR output	
	Transmitter Power	24VDC @ 20 mA ,12VDC @ 20 mA	
	Retransmission Current & Voltage outputs	0~20/ 4~20 mA, 0~5V, 0~10V, 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 PARAMETERS	Setpoint / 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 x48, 48 x 48 all are Panel mounted.	
	(A) Supply voltage (B) Power consumption	(A) 110/230 AC/24VDC, 50/60 Hz (B) 4 watts maximum	
	Operating ambient Temperature and Humidity	0~50 °C , and humidity : Below 90%, non condensing	

ORDERING INFORMATION :

UT-15	1	2	3	4	5	6	7
SIZE		INPUT	CNT. Output	Retrans. Output	Alarm	Power	Comm.
96 X 96	96	UNIVERSAL	None	None	1-relay	230V AC	None
48 X 48 (H)	48	FIX	Relay	4-20mA	2-relay	110V AC	Rs485
48 X 96 (V)	84	TYPE	SSR	0-10/5V		24V DC	Rs232
			4-20 mA	Special			