

Model No. - UT-304-F1



Model No. - UT308-F1



C.M.R.I. Certified for gas group I IIA IIB

External Box : Ex. Flameproof with S S Box

FEATURE :

- Flame proof low cost and compact size controller.
- μ P Based Power, full & highly reliable controller.
- I, IIA, IIB, IP 65 as per IS 2148/1981, certified by C.M.R.I.
- 4/8 nos. Universal Input T/C, RTD, linear input selection.
- 0.1% Accuracy of FSD.
- 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
- Fully Password Protected Operation.

INPUT (For All Channel)

Type	Range
J	-50 to 750 °C
K	-50 to 1200 °C
R	0 to 1750 °C
S	0 to 1750 °C
T	0 to 400 °C
E	-50 to 500 °C
PT-100	-50 to 400 °C
CU 53	-50 to 250 °C
LINEAR	-1999 to 9999
SPECIAL	-1999 to 9999

MAIN ADVANTAGE :

- Jumper less and fail safe design for long term consistent operation.
- Fully pass word protection for Tamper free operation.
- No separate loop supply required for 2 wire transmitter.
- User friendly menu for device configurations & calibration.
- 4/8 nos universal input in single compact controller.
- Field Configurable
- Highly communicative serial port for SCADA connectivity.
- Optional GSM mobile connectivity for remote data access.

APPLICATION :

- IIA, IIB, IP 65 zone On/Off control Application
- Pharmaceutical plant (API / clean room / formulation)
- Laboratory and scientific instrument
- Petrochemical plant
- Oil and Gas plant
- Fertilizer plant

Computer Software (SCADA) Available for On line Process Viewing, Controlling and Data Logging.



www.utplindia.in



+91 94273 01436



sales@utplindia.in



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TECHNICAL SPECIFICATION :

➤ FLAME PROOF	Gas group	I IIA IIB as per IS 2148/1981
	Enclose certification	Enclosure is certified by C.M.R.I., Dhanbad
	Display glass	Clear glass thognet type A as per IS 2206
	Degree protection	IP 65 as per IS 2147
	Material of constructions	Aluminum alloy
	Cable entry	UT-304- F1=5x 3/4 "ET UT-308- F1=12x 3/4 "ET
➤ INPUT	Input Type For Input 4 & 8	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 DC
	Transmitter power supply	0-75/200 mV 0-100/300V DC Resistance :0-500 R , 0-1/5/10 K, 1M
	Cold junction comp. & Sensor break ind.	24 V DC @ 30 mA max, isolated from I/P & O/P
	Range limits	Software base Automatic
	Accuracy	As per input range Table
➤ INDICATION	Indication	+/- 0.1 % of span for linear & RTD, +/-0.25 % for T/C
	Status indication	>330 K for Voltage ,mV, and T/C, 100 R for current
	Alarm modes	4 Digit process value 7 segment display
➤ COMMUNICATION	Communication Protocol & method	LEDs for High & Low alarm status & communicaton
	Programmable parameter & Connectable number	High and Low
➤ PROGRAMMABLE PARAMETERS	Setpoint / Hysteresis / High scale / Low scale	Modbus RTU RS- 485/RS- 232 Communication
	Alarm Logic	Baud rate,Parity , Node address , Stop bit & 0-256 unit
	Display resolution	Full range as per input selection
	Programming of parameters	F.S. High & Low Alarm
➤ OTHER	Dimensions & Mounting	-1999 to 9999 fully configurable for linear input
	(A) Supply voltage (B) Power consumption	Through 4 tactile keys
	Operating ambient Temperature and Humidity	As per box selection & wall/structure 2/2 holes
		(A) 110/230 V AC, 50/60 Hz (B) 9 watts maximum
		• 0~50 °C • and humidity : Below 90%, non condensing

ORDERING INFORMATION :

UT - 30XX F	1	2	3	4	5	6
	Nos. Of Input	Input Type-1	AUX Power	CNT. O/p-1 Ch-1	TPS Power	Communication
	4 channel 304-F1	Universal R	230VAC 2	None N -	None N	None 1
	8 channel 308-F1	Rtd & T/C L		Relay R 1/2 3/4	24V DC 2	RS-232 2
		Linear S			12V DC 1	RS-485 4





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