

# Universal Transmitter

## Model UT-94



**TYPE:** Micro-converter based, Universal Transmitter With Dual Output Channel.

### INPUT

**No of Inputs:** One

#### **Input Types**

**T/C:** E, J, K, T, B, R, S, N

**RTD:** Pt100, 3-WIRE

**Linear:** -10 - 20mV, 0-100mV, 0-2V, 0.4-2V, 0-5V, 0-20mA, 1-5V, 4-20 mA

**Input Accuracy:**  $\pm 0.1\%$  F.S.

**CMRR:** 120 dB      **MRR:** 50 dB

### SPECIFICATIONS

**Keys:** 3 Keys (ENT, SEL & ESC)

**Response Time:** 75 ms.

**Linearization:** Through Software, using 9<sup>th</sup> order Co-efficient.

**Calibration:** Through Front panel

**Cold Junction Compensation:** By software.

**Protection:** Short ckt. & Open ckt. (At O/P)

**Operating Temperature:** 0 to 50 deg C

**Operating RH:** 0 to 95 % RH Non condensing

**Thermocouple Burn Out:** Programmable scaling.

#### Power supply

**Operating Power Supply:** 24 VDC or 230 VAC  $\pm 5\%$  (To be informed at the time of ordering)

**Power Consumption :** < 2.5W

#### Isolation

**Isolation:** Three port isolation i.e. between inputs/ output/ power supply

**Isolation Level:** 1500 VDC between inputs Outputs and power supply

#### Physical Dimension

**Mounting:** DIN Rail

**Dimension:** 55 (W) x 75 (H) x 110 (D) mm

**Terminals:** PCB termination block can adjust up to 2.5 Sq. mm wire.

Input	Range	Resolution
E TC	-200 to 1000 °C	0.1 °C(1 °C After 999.9 °C)
J TC	-200 to 1200 °C	0.1 °C(1 °C After 999.9 °C)
K TC	-200 to 1370 °C	0.1 °C(1 °C After 999.9 °C)
T TC	-200 to 400 °C	0.1 °C
B TC	450 to 1820 °C	1 °C
R TC	0 to 1750 °C	1 °C
S TC	0 to 1750 °C	1 °C
N TC	-200 to 1300 °C	0.1 °C(1 °C After 999.9 °C)
RTD Pt100	-200 TO 850 °C	0.1 °C
-10 to 20 mV	-1999 to 9999 Counts	1 Count
0 to 100 mV	-1999 to 9999 Counts	1 Count
0 to 2 V	-1999 to 9999 Counts	1 Count
0.4 to 2 V	-1999 to 9999 Counts	1 Count
0 to 20 mA	-1999 to 9999 Counts	1 Count
4 to 20 mA	-1999 to 9999 Counts	1 Count
0 to 5 V	-1999 to 9999 Counts	1 Count
1 to 5 V	-1999 to 9999 Counts	1 Count

### Display

**Display Size:** 4 digit, 0.3", seven segment red LED

**Display Scaling:** -1999 to 9999

**Display Range:** **RTD:** -200 TO 850 °C

**Linear:** -1999 to 9999 (selectable)

**T/C:** as per Table

**Over Output:** 5% above F.S. (N.A for voltage Inputs)

### Outputs

**No of Outputs:** Two

**Output Types:** 4 -20mA, 0 -20mA , 1-5V, 0- 5V, 0-10VDC (Either Voltage or Current from a channel at a time)

**Output Load:** 750 Ohms max (For Current O/Ps) 4000 Ohms min (For Voltage O/Ps)

**O/P Accuracy:**  $\pm 0.1\%$  F.S.



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