

INTRODUCTION

This is a micro-controller based Universal Transmitter which retransmits the Thermocouple Inputs given & Percentage carbon output which it calculated.

This instrument provides isolation at 4 levels:

- (a) Between input and Power supply
- (b) Between output and Power supply.
- (c) Between input and output.
- (d) Output to Output.

SPECIFICATIONS

Model : UT-94C

Type : Micro-controller based, Universal Transmitter With Dual Retransmission Output.

DISPLAY : 4 digit, 0.3", seven segment red LED

DISPLAY SCALING : -1999 to 9999

DISPLAY RANGE :

- %C : 0.00 to 1.4999
- T/C : as per sensor
- mV : 0.00 to 1250

KEYS : 3 Keys (ENT, SEL & ESC)

NO. OF INPUT : Two

INPUT TYPES :-

- T/C : E, J, K, T, B, R, S
- mV : 0-1200mV (Fixed)

INPUT ACCURACY : ± 0.1% of Full Scale.

INPUT RESOLUTION : As Per Input table.

RESPONSE TIME : 200 mSec.

LINEARIZATION METHOD : Through Software, using 9th order Co-efficients.

NO OF OUTPUTS : Two (O/P-2 is Optional).

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)
4000Ohms min (For Voltage O/Ps)

OUTPUT ACCURACY : ± 0.25% of Full Scale.

CALIBRATION : Through Front panel

COLD JUNCTION

COMPENSATION : By software.

OVER RANGE OUTPUT : 5% above F.S.
(Not applicable for Voltage Inputs)

PROTECTION : Short ckt. & Open ckt. (At output)

CMRR : > 120 dB

NMRR : > 50 dB

THERMOCOUPLE BURN OUT : (Programmable scaling)

OPERATING SUPPLY : 85-265 VAC or
18-30 VDC (Optional).

POWER CONSUMPTION : < 10 W

ISOLATION : Three port isolation I.e. between input/ output/ power supply

ISOLATION LEVEL: 1500 VDC between input, outputs and power supply

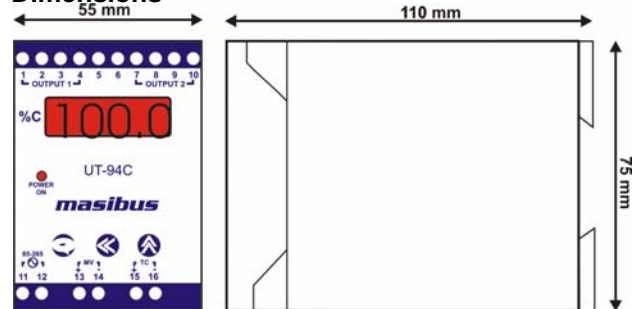
MOUNTING : DIN Rail

DIMENSION : 55 (W) x 75 (H) x 110 (D) mm

OPERATING TEMPERATURE : 0 to 55 deg C

OPERATING RH : 20 to 95 % RH Non condensing

Dimensions



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