

Temperature Transmitter

SERIES: TTH108

- > RTD OR THERMOCOUPLE INPUT
- > ZERO AND SPAN ADJUSTMENTS
- > HIGH ELECTROMAGNETIC NOISE RESISTANCE
- > DIN-RAIL VERSION OR IP65 PROTECTION BOX AVAILABLE (OPTION)





INTRODUCTION

Indumart TTH108 Series of Temperature Transmitters provide accurate and reproducible conversion of RTD or thermocouple signals to 4-20 mA output.

One model is designed to accept RTD input. The others accept types J, K, E, L, N and T thermocouple inputs and also provide automatic thermocouple cold junction compensation.

The transmitters will be supplied in standard factory calibrated ranges, but on board links allow the transmitter to be easily re-ranged to operate over most industrial and commercial applications. ZERO and SPAN potentiometers are provided to allow fine re-calibration at both ends of the scale.

The TTH108 Series are mounted on the standard 33 mm fixing centers of miniature RTD or thermocouple connection heads. Optionally, the transmitter maybe ordered as DIN rail mounting or secured in an IP65 rated box.

Input signals of TTH108 Series

Lance of Transac	D
Input Type	Range
Pt100 (3-wire)	-50+50°C
Pt100 (3-wire)	-50+100°C
Pt100 (3-wire)	0+50°C
Pt100 (3-wire)	0+100°C
Pt100 (3-wire)	0+150°C
Pt100 (3-wire)	0+200°C
Pt100 (3-wire)	0+250°C
Pt100 (3-wire)	0+300°C
Pt100 (3-wire)	0+400°C
Pt100 (3-wire)	0+500°C
Thermocouple E	0+600°C
Thermocouple J	0+800°C
Thermocouple K	0+1200°C
Thermocouple L	0+700°C
Thermocouple L-GOST	0+600°C
Thermocouple N	0+1200°C
Thermocouple T	0+300°C

SPECIFICATIONS

Range Selection **Thermocouple Selection Measurement Error** Nonlinearity for RTD RTD Linearity Proportional to Temperature T/C Linearity Proportional to **Temperature Drift** Cold Junction Compensation Automatic Zero Adjustment Span Adjustment **Output Current Limit** T/C Output @ Sensor Break RTD Output @ Sensor Break > 25 mA **Output Signal** Power Supply (2-wire Output) **Power Consumption** Maximum Line Load (RTD) Maximum Line Load (T/C) **Operating Condition Case Material** Mounting **Protection Case/Terminal** Dimensions (mm) Weight (g)

By jumper soldering By jumper soldering 0.3% of span 0.3% of span Input voltage 0.02% of span for 1°C ±50°C ±10% of range Low = 3mA; High = 28mA> 23 mA 4...20 mA 8...30 VDC (RTD & linear inputs) Up to 2 mA (3-wire output) 620 Ω at 24 V / 20 mA 800 Ω at 24 V / 20 mA -30...80°C; 0...95% RH Hard plastic DIN-Rail In Head In Box IP20 IP20 IP65 90x17x60 Ø43x17 80x80x60 30 180



