

- ✓ DIN-IEC 584 Thermocouples J,K,T,S,B
- ✓ Customised Ranges
- ✓ Linearized Analogue Output 4-20mA or 0-10V
- ✓ Set Point Relay 1A-230VAC
- ✓ For 35 mm DIN - Rails
- ✓ Supply 24V DC isolated



OC35-TC are transmitters for DIN Thermocouples J, K, T, S or B. They convert the mV Signals from the thermocouple into fast linearized analogue output 4-20mA or 0-10V.

The linearizing circuit utilises 6 points analogue method with accuracy of 0.1% of the full range. Sub Ranges are available upon request such as 0 ... 350 °C, - 20 ... 120 °C and other. Within this range a Set Point with an output Relay can be ordered.

Automatic Cold Junction Compensation with internal sensor placed close to the input terminals operates for ambient temperatures 0 - 60 °C.

The linearized output signal 0-10V or 4-20mA is available at the output terminals. The Transmitter is supplied from 24VDC. The supply is isolated from the thermocouple and the analogue output.

SPECIFICATIONS

Input:	"J"	- 50 ... + 700 °C
	"K"	- 50 ... + 1200 °C
	"B"	0 ... 1760 °C
	"S"	200 ... 1600 °C
	"T"	- 50 ... 400 °C

Customized ranges are available upon demand.

Accuracy: ± 0.1% from full range or 20µV (related to the input voltage).
The accuracy involves the Compensation Error, Hystereze and Repeatability.

Ambient Influence: Zero: < ± 2,5mV/K (Input Voltage)
Full Scale: < ± 0.01%/K

Compensation: Cold Junction is compensated from -25 to 70 °C ambient.
Compensation Error ± 1°C.

Output: 0 - 10V or 0/4 - 20mA. Response Time 5ms.

Set Point (Option): Customized range is adjustable with potentiometer at the front. Relay 1A-230VAC.

Supply: 24VDC, 2W, isolated by 250V RMS.

Cabinet: Snap-in for 35mm DIN rails. Dimensions: 25 x 60 x 70 mm. Weight 75 g.

Terminals: Pluggable screw terminals

TERMINALS

