

Mostec AG
Mess- und Regeltechnik
Lausenerstrasse 13a
CH-4410 Liestal
Switzerland
Tel. +41 61 921 40 90
Fax +41 61 921 40 83
Internet www.mostec.ch
E-Mail info@mostec.ch



Loop-powered transmitter for 3-wire Pt-100, Type M9302

M9302 installed in DIN
sensor head model "B"



Technical description

The M9302 loop powered temperature transmitter for platinum probes has a basic accuracy of 0.1%. The instrument is designed for three wire technology but can also be used in a two wire circuit. The temperature measured by the probe is linearized and converted into a signal current of 4...20mA. The temperature range, for the 4...20mA current signal, can be custom defined within -200 to +600°C.

Fine adjustment of ZERO and GAIN can be done with two 19-turn potentiometers. If any one of the three probe connections is broken, the instrument's output current will go to

either its high current limit (34mA) or low current limit (3.6mA). The instrument can be installed in DIN sensor head model "B". The M9302 provides an easy and elegant solution to expensive wiring costs.

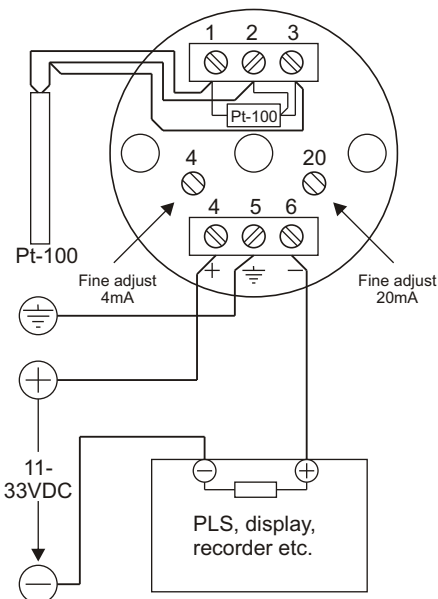
All measuring ranges will be configured custom specific after the order. Short delivery time and special ranges without extra cost are the most important advantages of the M9302.

Applications: Heating and air conditioning, biology, ecology, chemistry, industrial temperature controls, water resources, machinery, etc.

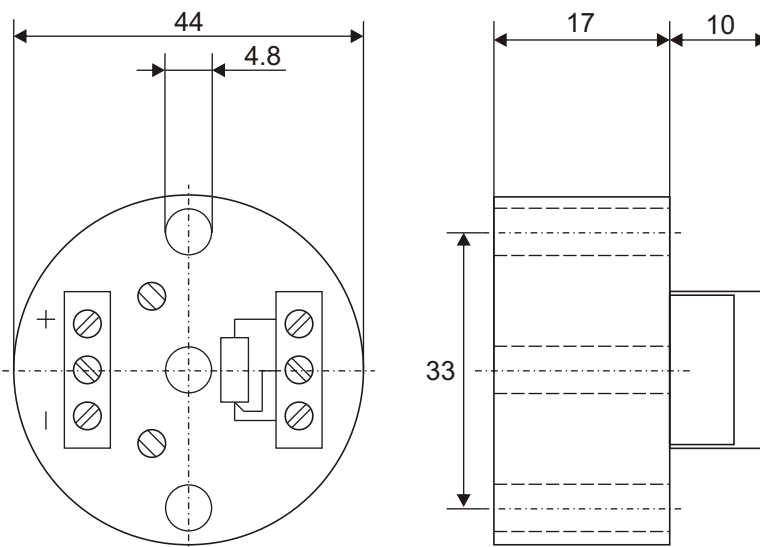
Technical Data:

Probe Element:	Pt-100 platinum probe with 100Ω at 0°C (DIN 43 760) in 2- or 3-wire connection
Probe Terminals:	3-wire: See label on terminal plate 2-wire: Probe at terminals 1+2 Bridge between 2+3
Signal Output:	4...20mA for any range between -200 and +600°C
Supply Voltage Range:	Min. 11VDC, max. 33VDC
Max. Power Dissipation:	1.2 W
Accuracy:	± 0.1% at 23°C ambient temperature within the range of -50 to +500°C
Reproducibility:	Better than 0.1%
Temperature Coefficient:	Zero drift: typ. 60ppm/°C Gain drift: typ. 56ppm/°C
Long-term Stability:	0.15% after 3 months
Working Temperature Range:	-20 to 60°C
Max. Humidity:	95%, non condensing
Max. Lead Length:	2000 Meter two wires
Max. Load at 33VDC:	1100Ω
Typ. Load at 24VDC:	560Ω
CE-Conformity:	fulfilled
Zero/Gain Adjustment:	Zero and Gain fine adjustment can be done by two potentiometers. This adjustment can only be used for line adjustments and not to change the measuring range.
Adjustment:	According to DIN 43760, ± 0.1%
Terminals:	Two 3 pole screw terminals
Delivery Time:	From stock independent from the desired range
Warranty:	2 Years
Options:	- Probe cable - Pt100 probe
Ordering Example:	M9302 for -30 ...+170°C

Typical application:



Dimensions (mm):



MOSTEC

Mess- und Regeltechnik
 Lausenerstrasse 13a
 CH-4410 Liestal
 Switzerland
 Tel. +41 61 921 40 90
 Fax +41 61 921 40 83