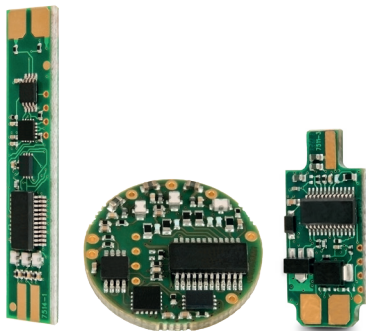# OEM202

OEM PCB, Basic Programmable 2-wire Transmitters for RTD

CE

5 YEAR WARRANTY

OEM202 are programmable temperature 2-wire transmitters in various OEM PCB-forms for integration into own equipments, such as temperature sensors, systems or machines.

The transmitters accepts inputs from both Pt100 and Pt1000 in 2-, 3- and 4-wire sensor connections.

OEM202 offers high accuracy and fast response time. The small form factor and the three different designs allows it to fit almost any application. The transmitter is connected to the process and sensor with solder pads.

- Inputs from Pt100 and Pt1000 in 2-, 3-, 4-wire connection
- Available in 3 standard form factors
- Easy-to-use Windows PC configuration software
- Available programming adapters for M12 connector, Valve connector form A and for PCB
- Configuration without external power supply
- Customizations upon request, e.g. different PCB form factor, pre-mounted connectors and cables, enable measurements with other types of RTDs
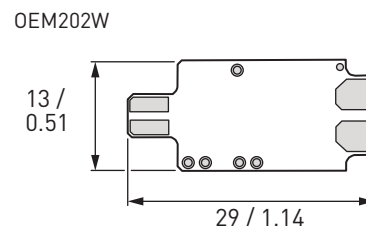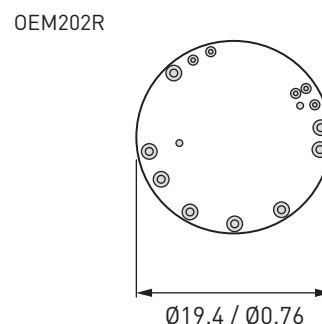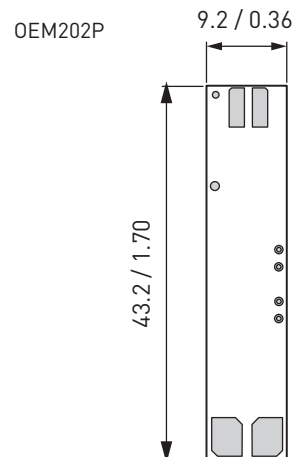
Specifications:

Input RTD	2-, 3-, 4-wire connection
Pt100 (IEC 60751, α=0.00385)	-200... +850 °C / -328... +1562 °F
Pt1000 (IEC 60751, α=0.00385)	-200... +850 °C / -328... +1562 °F
Output	4-20 mA / 20-4 mA, temperature linear
Sensor failure	Upscale (≥21.0 mA) or downscale (≤3.6 mA) action
Adjustments - Zero	Any value within range limits
Adjustments - Minimum spans	20 °C / 36 °F
Ambient temperature	Operating: –40...+85°C / –40... +185 °F Storage: –50...+100°C / –58... +212 °F
Humidity	0... 98% RH non condensing
Vibration	Acc. to IEC20068-2-6, test Fc, 10-2000Hz, 10g
Shock	Acc. to IEC60068-2-31, test Ec
EMC	Acc. to IEC61326-1
Typical accuracy	Max of ±0,1°C or ±0,1% of span
Long-term stability	Max of ±0,25° or ±0,25% / 5 year of span
Adjustable Filter	0.4 to 9.4 sec.
EMC	Acc. to IEC 61326-1
General data	
Galvanic isolation	No
Power supply	5.0...32.0 VDC
Permissible load	(Supply voltage-5) / 0.022

Go to Application Guidelines

Dimensions

OEM202P

9.2 / 0.36

43.2 / 1.70

OEM202R

Ø19.4 / Ø0.76

OEM202W

13 / 0.51

29 / 1.14

mm/inches

Output load diagram

$R_{LOAD}(\Omega) = (U-5)/0.022$

Supply voltage U (V DC)

Ordering information

OEM202P	70OEM202P1
OEM202R	70OEM202R1
OEM202W	70OEM202W1

INOR