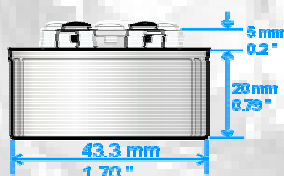
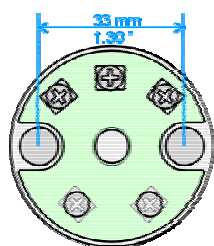




2-wire head-mounting transmitter 82000-series

- Analogue transmitter
- RTD (Pt100) or T/C input
- Link-selectable scaling
- Fast response time
- High accuracy
- ATEX approval available
- 5 Year warranty

DIMENSIONS



This high quality analogue transmitter is easy to scale via a simple solder link on the top of the transmitter and can even be re-scaled in the field. Fine zero and span adjustments is done using independent precision potentiometers. The electronics are completely sealed in a rugged epoxy-coated metal housing.

RTD (Pt100) units are completely linearized and thermocouple units are voltage linear. Off-the-shelf availability for RTD (Pt100) and thermocouples K and J. Other thermocouple inputs may be available, please contact us for possibilities. RFI versions are available, as well as intrinsically safe versions following the latest ATEX directives.

Order Information: specify model

Model	Input
R82000	Pt100
T82000	K or J (contact factory for others)
P82000	Potentiometer

Options:

-HF-EX
-HF-EX
-HF

Options:

- EX = Intrinsically safe version (ATEX Ex II 1 G EEx ia IIC T4...T6)
- HF = RFI Immunity

Specifications 82000-series

Vnom	24 VDC
Tamb	25°C
Span nom.	RTD=100°C T/C=250°C
General	
Output	4 - 20 mA
Power supply	12 - 36 VDC (EX: 12 - 30VDC)
Zero drift	±0.02%/°C
Span drift	±0.02%/°C
Supply voltage effect	±0.002%/V
Open circuit detection	Upscale >23 mA, limited 40 mA
Load capability	(V[bat] - 12V) / 20mA
Ambient temperature	-20 to 70°C
Storage temperature	-20 to 100°C
Dimensions Dia. x H	43 mm x 25 mm
Ingress Protection	IP20
ATEX	Ex II 1G EEx ia IIC T4..T6
Pt100 (alpha=0.00385)	Model R82000
Zero adjustment	Between -50° and +50°C
Span adjustment	-50° to 800°C
Minimum span	50°C
Sensor lead resistance effect	0.01°C/Ohm; max. 500 Ohm
Linearization	0.1%
Thermocouple	Model T82000
Zero adjustment	± 50°C
Span adjustment	T/C K: 150° to 1200°C T/C J: 150° to 600°C
Minimum span	150°C
Cold junction drift	0.03°C/°C
Lead resistance	10 K Ohm max.
Output	Voltage linear
Potentiometer	Model P82000-FR
Minimum potentiometer	1 kilo Ohm
Maximum potentiometer	50 kilo Ohm
Range	0 – 100% = 4 – 20 mA (fixed range)
Variable resistor	Model P82000
Range	Factory set; specify resistor



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