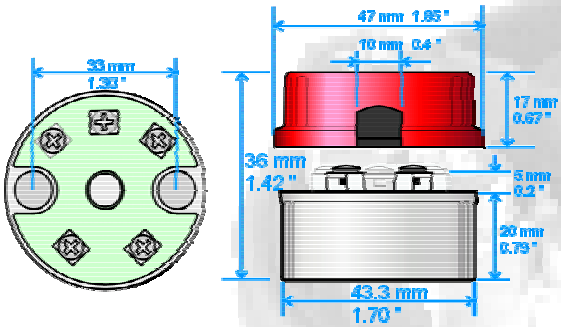
S-Products

Head Mounting Transmitters

2-wire head-mounting transmitter
Mp82800-R

- Microprocessor-based
- RTD (Pt100) input only
- Fully linearized
- RFI protected
- High Accuracy
- ATEX approval available
- Optional plug-in readout & head
- 5 Year warranty

DIMENSIONS



The Mp82800-R is an advanced 2-wire head-mounting microprocessor-based transmitter. It has been especially designed to provide you with very easily to program for all your Pt100 RTD range requirements. Programming is done via your personal computer and our software and interface within less than a minute.
The Mp82800-R mounts in a standard small connection head (B-form).

Features include: small minimum span, selectable upscale / downscale for sensor break, RFI protected, a five year warranty against failure and optional intrinsically safe (ATEX). It even can be optionally supplied with a plug-in loop-powered readout and connection head with window.

Order Information:
Model Mp82800-R

Options:
-D-EX-CW-IF

Options:
-D = Plug-in Loop-powered Readout
-EX = Intrinsically safe version (ATEX Ex II 1 G EEx ia IIC T4…T6)
-CW = Connection Head with Window
-IF = Interface and software

Specifications Mp82800-R

Input RTD	Pt100 3-wire
Minimum Span	25°C
Output	4..20 mA or 20..4 mA
Linearization	On / Off
Supply	11..40 VDC, Polarity Protected
Supply Effect	0.02%/V
Max. Ripple	10 V PP. Min Vbat=11 VDC
Zero Drift	± 0.02%/°C or ±0.02°C/°C
Span Drift	± 0.01%/°C or ±0.01°C/°C
Long Term Drift	± 0.1%/Year
Excitation Current, RTD	0.1 mA
Sensor Lead Resistance, RTD	500 Ohm max.
Sensor Lead Resistance Effect	0.01°C/Ohm
Open Circuit Detection	Upscale / Downscale
Load Capability	Vbat-11V / 20 mA
Startup Time	30 sec.
Warmup Time	5 Min.
Ambient Operating Temp.	-40...+ 85°C
Storage Temperature	-40...+100°C
Ingress Protection	IP30
Housing Material	Zinc Alloy (ZAMAK 5) epoxy coated
Housing Dimension	43mm Dia. x 27mm H.
Housing Dimension with Read-Out	43mm Dia. x 36mm H.

SENSOR RANGES

Sensor type	Temp. Min. °C	Temp. Max. °C	Span Min. °C
Pt100 IEC751	-200	850	25

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