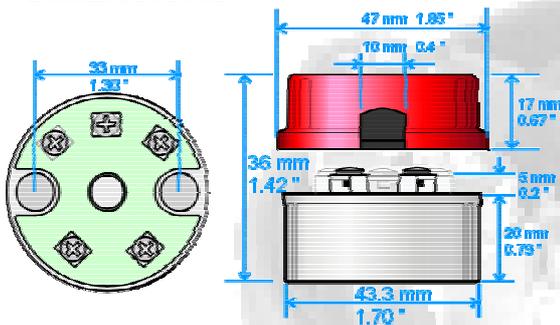# S-Products

2-wire head-mounting transmitter
Mp82850-R

- Microprocessor-based
- RTD (Pt100) input only
- Push-button programmable
- Fully linearized
- Accurate
- Optional plug-in readout & head
- 5 Year warranty

Easy calibration without a computer!

DIMENSIONS

The Mp82850-R is a member of our two-wire headmounting microprocessor-based transmitter family. Able to fit in a standard connection head, it is quickly and easily programmed to you exact Pt100 RTD requirements via two simple clicks on the onboard push-button. This allows you to have a single transmitter to meet all your Pt100 requirements; both 4-20 mA and 20-4 mA.

Optional features of the Mp82850-R transmitter include a loop-powered plug-in LCD readout for local display of the measured temperature. There is also a DAN connection head available with a window enabling you to read the display without opening the head.

Easily programmed within less than a minute, the Mp82850-R transmitter can be used for all your Pt100 RTD range requirements.

Order Information: **Options:**
Model Mp82850-R -D-CW

Options:
-D = Plug-in Loop-powered Readout
-CW = Connection Head with Window

Specifications Mp82850-R

Input RTD	Pt100 3-wire
Minimum Span	25°C
Output	4..20 mA or 20..4 mA
Linearization	On
Supply	12..36 VDC, Polarity Protected
Supply Effect	0.02%/V
Max. Ripple	10 V PP. Min Vbat=12 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
Load Capability	Vbat-10V / 20 mA
Startup Time	30 sec.
Warmup Time	5 Min.
Ambient Operating Temp.	-30...+ 85°C
Storage Temperature	-40...+100°C
Ingress Protection	IP20
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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www.s-products.com