

H4859B Space Temperature Transmitters

Specification

Overview

The Honeywell H4859B provides benchmark performance, features, and appearance. This wall-mount transmitter provides accurate temperature measurement, even with 24 Vdc power and no forced air circulation. This transmitter includes an integral 1000 ohm RTD.

Description

- Designed for use with 375 Platinum 1000 ohm RTD input
- Unique wall-mount design
- Optimum flow-through ventilation
- Easy Zero and Span ranging
- Walk-up, plug-in readout
- On-line calibration
- Non-polar connections
- Calibrated system test current



Figure 1—H4859B Space Temperature Transmitter

Features

Superior Performance

- Accuracy of $\pm 0.3^{\circ}\text{C}$ (0.5°F) at room temperature
- Good RFI rejection

Easy Ranging

- DIP switch rangeable
- Wide rangeability
- Zero can be ranged from -23°C to 15°C (-10°F to 60°F)
- Span can be ranged between 19°C to 83°C (35°F to 150°F)

Features, continued

Simple Installation

- Non-polar loop connections prevent reversed hook-ups
- Calibrated 4 mA is provided when system is shorted; this "0" reference aids in installation and set-up

Simple, Quick On-line Calibration/Verification

Plug in a digital meter, compare to a portable standard, adjust one pot, unplug the meter and walk away.

Reduced Need for Multiple Spares

Ease of re-ranging reduces need for multiple spares; one unit can be used as spare for many ranges.

Specifications

Transmitter Description	High performance, rangeable space mount
Sensor	1000 ohm Platinum RTD
Transmitter Accuracy	Only system performance specification applies
Zero Range	–23 °C to 15 °C (–10 °F to 60 °F)
Span Range	19 °C to 83 °C (35 °F to 150 °F)
Field Rangeability	<i>Zero:</i> –23 °C to 15 °C (–10 °F to 60 °F) <i>Span:</i> 19 °C to 83 °C (35 °F to 150 °F)
Range Adjustment	Gold-plated DIP switch selected.
Output	Linear 4-20 mA, 2-wire
Input Voltage Effect	0.002 % of span/Volt maximum from 9.4 Vdc to 30 Vdc
Temperature Coefficient	0.008 °C/°C (°F/°F) maximum output error
RTD Current	1 mA nominal
RFI Immunity	Per SAMA specification PMC 33.1
Housing(s)	ABS housing; dimensions shown in Figure 2.
Operating Environment	–50 °C to 80 °C (–58 °F to 176 °F), non-condensing
Storage Environment	–55 °C to 85 °C (–67 °F to 185 °F), non-condensing
Power Requirements	9.4 Vdc + (Rload x 0.02 A) minimum to 45 Vdc maximum, unregulated. Add 2.7 V for operation with optional H411339-40278-0 meter.
Recommended Rload	100 ohms ± 0.1 % at 11.4 Vdc minimum 250 ohms ± 0.1 % at 14.4 Vdc minimum 500 ohms ± 0.1 % at 19.4 Vdc minimum
Connections	Screw terminals. Non-polar. Calibration jack.
Polarity Protection	Diode protected
Sensor Short Indication	4.0 ± 0.01 mA
Sensor Open Indication	Upscale
Zero and Span Adjustment	Non-interacting zero and span adjust. Resolution is constant. Adjust only the zero pot for in-situ field calibration.
Universal Spares	Re-range via switches, zero and span pots.

Dimensions

Dimensions: $\frac{\text{millimeters}}{\text{inches}}$

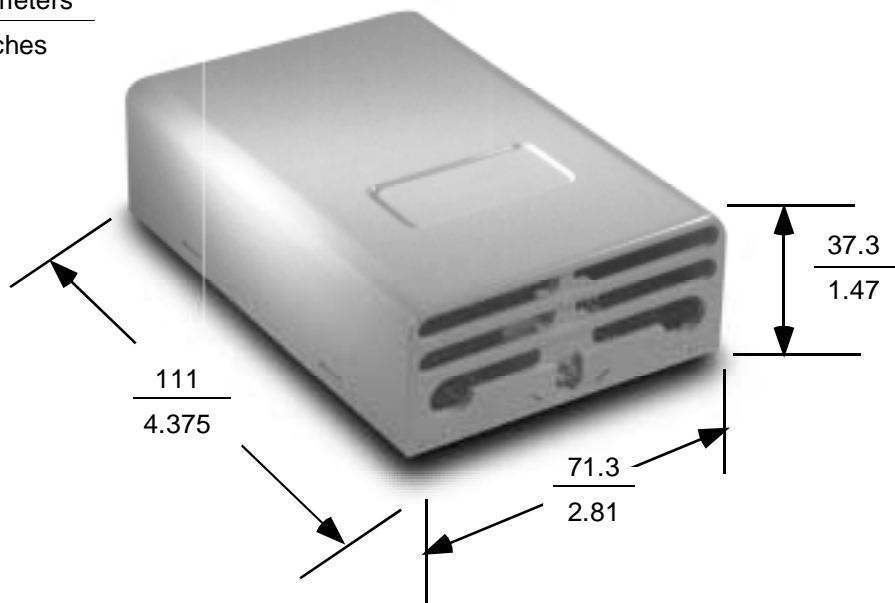


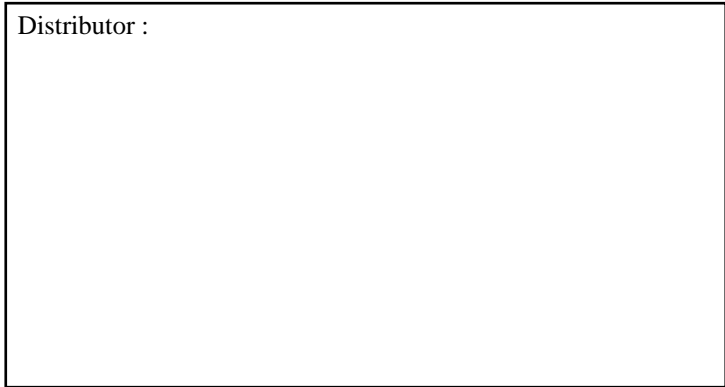
Figure 2—H4859 – High Performance, Rangeable, Space Mount

Warranty/Remedy

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is **in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose**. Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Distributor :



For more information, contact Honeywell sales at 1-800-343-0228.

Honeywell

Sensing and Control
Honeywell
11 West Spring Street
Freeport, IL 61032