

FEATURES

- Input Ranges from 2mV to 250Volts, 1mA to 100mA
- Low-Drift Input Amplifier
- Fits Standard Connection Heads
- Quick-Check Output LED
- -40 to +80 Degree C Operation
- Small Size, Low Cost
- DIN Rail Mounting Available



DESCRIPTION

The Model JH200 2-wire transmitter provides a 4/20mA current loop output proportional to a DC voltage or current input. A fixed-range device, it is precisely calibrated to your specified input range at the factory. Span may be as low as 2 millivolts or 1 milliampere dc for use with sensitive transducers, or as high as 250V or 100mA for power monitoring applications. Conformal coating protects the circuitry against condensation and corrosion in industrial atmospheres.

The JH200 is a loop-powered device. Connected in series between a 24Vdc supply and readout instruments, it receives its power from the 4/20mA output loop. A built-in LED indicates loop current: dim at 4mA, bright at 20. The JH200 does not provide input/output isolation.

Its small 1-3/4 inch diameter allows the transmitter to fit most standard thermocouple-type connection heads. It also may be surface mounted. A DIN rail mounting clip option is available.

HOW TO ORDER

Model Number: JH200.

Input Range:

Specify any DC voltage or current range allowed by the "Input Capabilities" spec (see back)

DIN-Rail Mounting:

Change model number to Model JH200-DIN. (See "Installation and Connections" on back.)

Note: Urethane coating is standard.

Output Range:

(Always 4/20mA dc.)

Power:

(Always dc loop powered.)

INSTALLATION

The 1-3/4 inch diameter JH200 is designed to fit many standard thermocouple-type connection heads. It may also be mounted to any surface using two #8 (or smaller) screws. An optional DIN-rail mounting clip (specify Model JH200-DIN) allows the transmitter to be snapped onto DIN rail. Width is 1-3/4 inches.

CONNECTIONS

Connections are made to the transmitter's terminal strip. Connections are:

“+” Terminal: Output/Power Loop. Receives current from (+) DC supply.

“-” Terminal: Output/Power Loop. Passes on current to the next series loop device, or to the (-) supply.

Terminal A: Input plus.

Terminal B: No connection.

Terminal C: Input minus.

SPECIFICATIONS

Voltage Input Capabilities:

2mV minimum span, +/-250V maximum input. Offset ranges are allowed. (Input Impedance: 200kohms or greater.)

Current Input Capabilities:

1mA minimum span, +/-100mA maximum input. Offset ranges are allowed. (Input resistance varies with input range. Contact factory for details.)

Output:

4/20mA, 2-wire (loop-powered) output.

Accuracy:

+/-0.1% of span or 10 microvolts, whichever is greater.

Adjustability:

Zero and span each are adjustable approx. +/-15% of span.

Linearity:

+/-0.05% of span or better.

Response Time:

Under 100 milliseconds.

Operating Temperature:

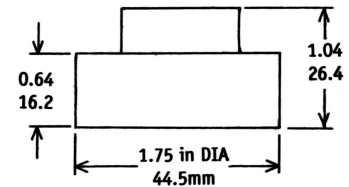
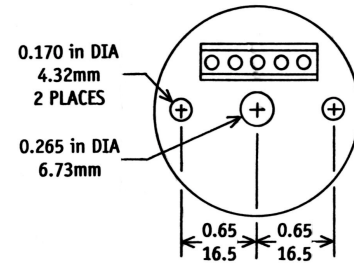
-40 to +80 deg. C (-40 to +176 deg. F).

Temperature Stability:

+/- (0.02% of span plus 1 microvolt) per deg. C, or better.

Power Requirements:

DC loop-powered. Requires at least 12Vdc at the transmitter's output terminals. 36Vdc maximum.



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