

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.

RECALIBRATION

The JH200 is shipped factory-calibrated. To check or readjust calibration connect a precision DC voltage or current source to the input. Connect the output in series with a 24 Vdc supply and a precision 4/20mA meter. To maintain factory-calibration accuracy the output should be monitored to 4-1/2 digits or better, with an accuracy of 0.05%.

Set the input to the low end of the range. Adjust *ZERO* for the proper low-end output (usually 4.00mA).

Set the input to full-scale. Adjust *SPAN* for the proper full-scale output (usually 20.00mA).

Repeat until both readings are correct.

AVAILABLE OPTION

DIN-Rail Mounting Clip: Change model number to JH200-DIN.

(Note: Urethane coating is standard.)

QUICK-CHECK LED

The red LED glows dim at 4mA, brighter at higher currents. It turns off completely at the minimum output loop current (approximately 3.6mA).

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:

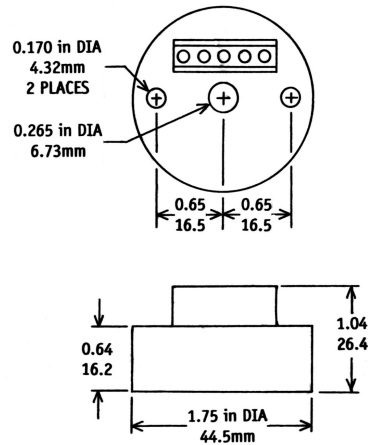
-40 to +80°C (-40 to +176°F).

Temperature Stability:

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

Power Requirements:

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

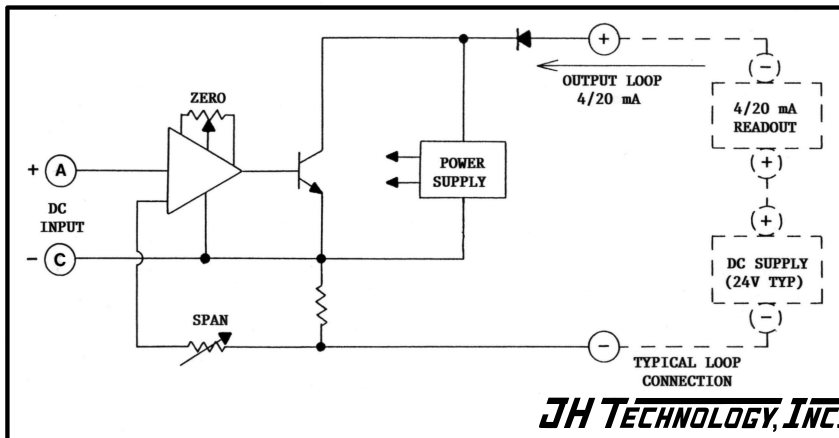


DC INPUT TWO WIRE TRANSMITTER

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 milliamper 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.



SEVEN-YEAR WARRANTY

The JH200 will be replaced free if it fails due to defects in materials or workmanship within seven years of the date shipped.

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JH TECHNOLOGY, INC.

Sarasota, FL USA
 (800) 808-0300 or (941) 927-0300
 Fax: (941) 925-8774
www.jhtechnology.com