

FEATURES

- Potentiometers from 1 to 100Kohms
- Offset and Expanded Input Ranges Possible
- Fits Standard Connection Heads
- Rugged Design, Conformal-Coated Board
- Quick-Check Output LED
- -40 to +80 Degree C Operation
- DIN Rail Mounting Available



DESCRIPTION

The Model JH250 2-wire transmitter provides a 4/20mA current loop output proportional to the position of a potentiometer or slidewire wiper. A fixed-range device, it is precisely calibrated to your specified input range at the factory. Standard input calibration is 0/100% travel: it may be readjusted or factory-calibrated to any 50% or wider portion of the travel. Conformal coating protects the circuitry against condensation and corrosion in industrial atmospheres.

The JH250 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 JH250 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: JH250.

nor more than 100Kohms.

Note: Urethane coating is standard.

Input Range:

Standard calibration is for 0/100% travel. If you wish, calibration can be factory-set for any 50% or wider input range. Simply specify on your order.

Output Range:

(Always 4/20mAdc.)

Power:

(Always dc loop powered.)

DIN-Rail Mounting:

Change model number to Model JH250-DIN. (See "Installation and Connections" on back.)

Input Potentiometer:

It is *not* necessary to specify the potentiometer's resistance. Just make sure it is no less than 1Kohm

INSTALLATION

The 1-3/4 inch diameter JH250 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 JH250-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: Potentiometer wiper.

Terminal B: Potentiometer cw (100% travel).

Terminal C: Potentiometer ccw (0% travel).

SPECIFICATIONS

Input Capability:

0 to 100% travel, or any 50% or wider portion of the travel (for example, 25 to 75% travel).

Input Potentiometer:

May be any resistance between 1Kohm and 100Kohms. It is not necessary to specify the potentiometer resistance on your order: end-to-end resistance does not affect the calibration.

Output:

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

Accuracy:

+/-0.1% of span.

Adjustability:

Zero and span provide sufficient adjustability to allow recalibration to any 50% or wider portion of the input potentiometer's travel.

Linearity:

+/-0.05% of span or better.

Response Time:

Under 100 milliseconds.

Operating Temperature:

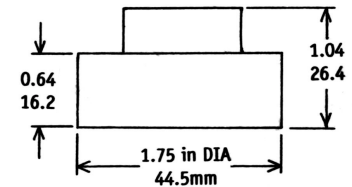
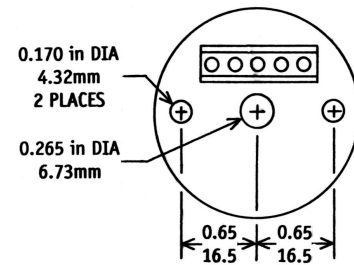
-40 to +80 deg. C (-40 to +176 deg. F).

Temperature Stability:

+/-0.02% of span 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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