

JH250 2 Wire Transmitter Potentiometer Input

Written by Administrator

Tuesday, 31 May 2011 02:10 - Last Updated Monday, 29 August 2011 01:11

MODEL JH250: 2-WIRE TRANSMITTER POTENTIOMETER INPUT, FIXED RANGE, NONISOLATED



- Potentiometers from 1 to 100Kohms
- Offset and Expanded Input Ranges Possible
- Fits Standard Connection Heads
- Quick-Check Output LED
- -40 to +80 Degree C Operation
- DIN Rail mounting available

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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.

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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 20mA. The JH250 does not provide input/output isolation.

ORDERING INFORMATION

Model Number:

Model JH250.

Input Range:

Standard calibration is for 0/100% travel. If you wish, calibration can be factored.

Input Potentiometer:

It is *not* necessary to specify the potentiometer's

Output Range:

(Always 4/20mA dc.)

Power:

Always dc loop powered.

DIN-Rail Mounting

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

INSTALLATION AND CONNECTIONS

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The JH250 is 1-3/4 inches in diameter and 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 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).

DETAILED SPECIFICATIONS

Input Capability:

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

Input Potentiometer:

May be any resistance between 1Kohm and 100Kohms. It is not necessary to

Output:

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

Accuracy (factory calibration)

+/-0.1% of span.

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Adjustability:

Zero and span provide sufficient adjustability to allow recalibration to any 50

Linearity:

+/-0.05% of span or better.

Response Time:

Under 100 milliseconds.

Guaranteed 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 terminal