

## JH5500 Strain Gauge Transmitter

Written by Administrator

Friday, 10 June 2011 17:40 - Last Updated Monday, 22 August 2011 00:23

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### JH5500 STRAIN GAUGE TRANSMITTER DIN-RAIL MOUNT, FIXED RANGE



- Input Spans as low as 0.4mV/V
- Excitation Adjustable from 4 to 12V
- Quick-Check Red/Green Output LEDs
- High Speed "Option HS" Available
- DIN-Rail Mount, 1 Inch Wide
- Unpluggable Terminal Strip
- AC or DC Power Options

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## MANUAL

The Model JH5500 Strain Gauge Transmitter supplies excitation to a strain gauge or other resistance bridge, amplifies the bridge voltage and provides a proportional, isolated DC voltage or current output. A low-drift input amplifier maintains accurate readings under varying ambient conditions.

Red-green Quick-Check LEDs give a quick indication of the relative output. Red is brighter at the low end, green at high, while at mid-scale both are approximately equal. Red-only indicates offscale low while green-only indicates offscale high.

Standard transmitters include filtering to smooth measurements and minimize noise pickup. When fast response is needed, Option HS speeds the response time to approximately 1 millisecond. Other response speeds are available on special order.

Available options include AC and DC power choices and reverse-acting transmitter (decreasing output with increasing input).

### ORDERING INFORMATION

<b>Model Number:</b>	<input type="text"/>	<b>Specify Model JH5500A</b>
<b>Input Range:</b>	<input type="text"/>	<b>Specify range required in mill</b>
<b>Bridge Excitation:</b>	<input type="text"/>	<b>Standard setting is 10Vdc.</b>
<b>Output Range:</b>	<input type="text"/>	<b>Specify any DC voltage or cu</b>
<b>Power:</b>	<input type="text"/>	<b>Specify 115Vac, 230Vac, 12V</b>
<b>Reverse-Acting Transmitter(decreasing output with increasing input)</b>		<b>Change last dig</b>
<b>Loop-Powered Output:</b>	<input type="text"/>	<b>4/20mA "current sink" output stage for connec</b>
<b>High Speed Response</b>	<input type="text"/>	

**Approximately 1 msec** (See Specifications). Specify Option HS.

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Urethane Coating:

Specify Option U.

Model JH5500 snaps onto 35mm DIN rail. Connections are made to the front-panel terminals. The terminal strip unplugs to facilitate calibrating or replacing the transmitter.

Connections to the 8 terminals (top to bottom) are:

- 1:** Input plus (bridge output).
- 2:** Input minus (bridge output).
- 3:** Bridge excitation plus.
- 4:** Bridge excitation minus.
- 5:** Output plus.
- 6:** Output minus.
- 7:** Power (AC or, if DC power option, DC plus).
- 8:** Power (AC or, if DC power option, DC minus).

## DETAILED SPECIFICATIONS

Input Capabilities:

4mV (0.4mV/V at 10V ex

Excitation Voltage:

Adjustable 4 to 12Vdc. Factor

Voltage Output Capabilities:

1 volt minimum output span,

Current Output Capabilities:

1mA minimum output span, 0

Accuracy (factory calibration) :

Adjustability:

Zero and span each are adjust

Linearity:

+/-0.05% of span or better.

Response Time:

Standard: Under 100 milliseconds. Option HS: Approximately 95% complete in 1 msec. Frequency

Isolation:

3-way (Power/Input/Output) 1

Guaranteed Operating Temperature:

-10 to +60 deg. C (14 to 140 d

Temperature Stability:

+/- (0.02% of span plus 1.3 mic

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**Power Requirements:**

**AC, 115 or 230Vrms, 50/60Hz,**