

FEATURES

- Input Ranges from 4mV to 250Volts, 1mA to 5 Amps
- Low-Drift Input is Standard
- Input/Output Isolation is Standard
- Quick-Check Red/Green Output LEDs
- Industry Standard Pinouts (8-Pin Socket)
- Nonstandard Ranges Available
- AC or DC Power Options

DESCRIPTION

Model JH4300 provides a DC output proportional to a DC voltage or current input. It is useful for amplifying, scaling, converting and isolating DC signals. A fixed-range device, it is precisely calibrated to your specified range at the factory.

A low-drift input amplifier is now standard for millivolt-level inputs. This feature formerly was an extra-cost option designated by Model Number JH4310.

Input/output isolation is standard. AC or DC power choices and reverse-action Option RT (decreasing output with increasing input) are available.

HOW TO ORDER

Model Number: JH4300

Power:

Add suffix -AC for AC power or -DC for DC power. (Example: JH4300-AC.) Specify 115Vac, 230Vac, 12Vdc or 24Vdc.

Input Range:

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

Output Range:

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

Reverse-Acting Transmitter:

Decreasing output with increasing input. Specify Option RT.

Loop-Powered Output:

4/20mA "current sink" output stage for connection to devices

whose inputs provide 24Vdc loop excitation. Specify Option LPO.

Urethane Coating:

Specify Option U.



INSTALLATION

The JH4300 plugs into any standard 8-pin circular (“octal”) relay socket. JH Technology offers part # DS008 for DIN-rail or surface mounting (see the Accessories page).

CONNECTIONS

Pin 1: Power (AC or, if DC power option, DC plus).

Pin 2: No connection.

Pin 3: Power (AC or, if DC power option, DC minus).

Pin 4: No connection.

Pin 5: Input plus.

Pin 6: Input minus.

Pin 7: Output plus.

Pin 8: Output minus.

QUICK-CHECK LEDS

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.

SPECIFICATIONS

Voltage Input Capabilities:

4mV minimum span, +/-250V maximum input. Offset ranges are allowed. (Input Impedance: 200kohms or greater.)

Current Input Capabilities:

1mA minimum span, +/-5 Amps maximum input. Offset ranges are allowed. (Input resistance varies with input range. Contact factory for details. 62 ohms for 4/20mA input.)

Voltage Output Capabilities:

1 volt minimum output span, -10 to +15V absolute limit. Offset ranges are allowed. Maximum output load, 10mA (1Kohm at 10V output).

Current Output Capabilities:

1mA minimum output span, 0 to +25mA absolute limit. Positive offsets are allowed, negative outputs are not. Output drive capability, 24V (1,200 ohms max. at 20mA 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.

Isolation:

Power, 1,500Vac rms (2,100V peak). Input/Output, 1,000Vac rms (1,400V peak).

Operating Temperature:

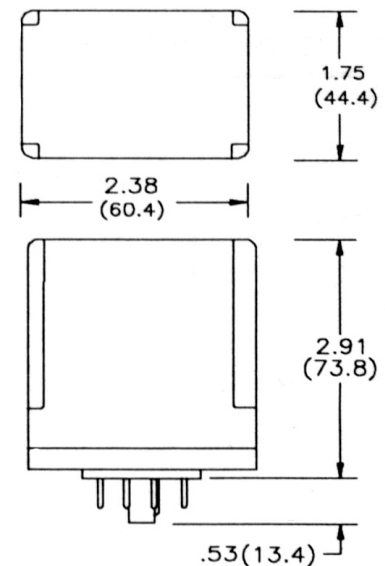
-10 to +60°C (14 to 140°F).

Temperature Stability:

+/- (0.02% of span plus 1.3 microvolts) per °C, or better.

Power Requirements:

AC, 115 or 230Vrms, 50/60Hz, 2.5V-A. DC, 12 or 24V, 2.5W.



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