POTENTIOMETER INPUT TRANSMITTER PLUG-IN MODULE, FIXED RANGE

JH4003I: Potentiometer Input, Input/Output Isolated

- Potentiometers from 100 ohms to 100Kohms
- Offset and Expanded Range Capabilities
- Quick-Check Red/Green Output LEDs
- Industry Standard Pinouts (8-Pin Socket)
- AC or DC Power Options

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DATA SHEET

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MANUAL

Model JH4003I provides a DC output proportional to the position of a potentiometer or slidewire wiper. A fixed-range device, it is factory set, but you may specify 0/100% input travel or any expanded range covering a 10% or wider portion of the travel.

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.

Available options include input/output isolation (Model JH4003I), AC or DC power choices and reverse-action Option RT (decreasing output with increasing input).

ORDERING INFORMATION

Model Number	**:**

Select JH4003I -AC for AC power, or JH4003I-DC for DC power.

Input Potentiometer	**:**

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

Input Range	**:**

Specify 0/100%, or any 10% or wider portion of the travel (for example, 60/70%

Output Range	**:**

Specify any DC voltage or current range allowed by the "Output Capabilities"

Power	**:**

Specify 115Vac, 230Vac, 12Vdc or 24Vdc.

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 p

Urethane Coating:

Specify Option U

INSTALLATION AND CONNECTIONS

These transmitters plug into any standard 8-pin circular ("octal") relay socket. JH Technology offers a socket suitable for DIN-rail or surface mounting (see the Accessories page). Pin connections are:

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: Potentiometer ccw (0% travel).
Pin 5: Potentiometer wiper.
Pin 6: Potentiometer cw (100% travel).
Pin 7: Output plus.
Pin 8: Output minus.

DETAILED SPECIFICATIONS

Input Potentiometer:

May be any resistance between 100 ohms and 100Kohms. It is not necessary

Input Capabilities:

0 to 100% travel, or any 10% or wider portion of the travel (for example, 35/45

Voltage Output Capabilities:

1 volt minimum output span, -10 to +15V absolute limit. Offset ranges are allo

Current Output Capabilities:

1mA minimum output span, 0 to +25mA absolute limit. Positive offsets are al

Accuracy (factory calibration)

+/-0.1% of span, or better.

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)

Guaranteed Operating Temperature:

-10 to +60 deg. C (14 to 140 deg. F).

Temperature Stability:

+/-0.02% of span per deg. C, or better.

Power Requirements:

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