

## DC INPUT PLUG-IN ALARM MODULES



### JH1000: Single Trip Alarm JH1020: Dual Trip Alarm

- Input Ranges from 4mV to 250V, 1mA to 5A
- Switch-Selectable HI/LO Trip Function
- Adjustable Deadband Standard
- Red/Green Alarm Status LEDs
- Industry-Standard Pinouts (11-Pin Socket)
- AC or DC Power Options

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**MANUAL**

Models JH1000 and JH1020 DC Input Alarms monitor a DC voltage or current and provide relay contact HI/LO trip outputs. Both are fixed-range devices, with input ranges preset per your order.

The alarm trip points are adjustable anywhere within the input range. Deadbands also are fully adjustable, from 0.25% to 100% of span. A slide switch, accessible through the top of the enclosure, selects HI or LO trip operation (on dual alarms, HI/HI, HI/LO or LO/LO). Red/green LEDs indicate alarm status.

Alarm contacts are rated at 5 amps, 230Vac or 30Vdc. Model JH1000 provides one set of DPDT relay contacts; Model JH1020, two SPDT relays. Both models now include as standard a low-drift input amplifier for millivolt-level signals (formerly an extra-cost option). AC and DC power options are available.

## ORDERING INFORMATION

**Model Number:**

**Select JH1000 single-trip alarm or JH1020 dual-trip alarm. Add suffix –AC for**

**Input Range:**

**Specify any DC voltage or current range allowed by the "Input Capabilities" s**

**Trip Point:**

**If you would like the trip points to be factory set, please specify the following**

**Relay Action:**

**Standard is**  **Failsafe**  - the relay is energized  **Option R (Reverse Action)**

**Power:**

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

**Urethane Coating:**

**Specify Option "U"**

## INSTALLATION AND CONNECTIONS

These alarms plug into any standard 11-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:** Input plus.
- Pin 5:** Input minus.
- Pin 6:** Setpoint 1 relay NO contact.\*
- Pin 7:** Setpoint 1 relay moving contact.\*
- Pin 8:** Setpoint 1 relay NC contact.\*
- Pin 9:** Setpoint 2 relay NO contact.\*
- Pin 10:** Setpoint 2 relay moving contact.\*
- Pin 11:** Setpoint 2 relay NC contact.\*

- Notes: NO (normally open) and NC (normally closed) refer to the relay

state when no power is applied. For Failsafe operation the NO contacts are closed under nonalarm conditions. The NC contacts close upon alarm and upon loss of power. The terms Setpoint 1 and Setpoint 2 refer to dual-trip alarms. For single-trip alarms, both sets of contacts respond to the one trip point.

## DETAILED SPECIFICATIONS

**Voltage Input Capabilities:**

**4mV minimum span**

**Current Input Capabilities:**

**1mA minimum span, +/-5 Amps maximum input. Offset ranges are allowed. (I**

**Relay Contacts:**

**Single Alarm, one DPDT relay. Dual Alarm, two SPDT relays. Contacts rated 5**

**Setpoint Adjustment:**

**0% to 100% of range.**

**Deadband Adjustment:**

**0.25% to 100% of range.**

**Response Time:**

**under 100 milliseconds.**

**Isolation:**

**Input is isolated from power and from relay contacts. 1,500Vac rms (2,100V p**

**Guaranteed Operating Temperature:**

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

## JH1000-JH1020 DC Input Plug In Alarm Module

Written by Administrator

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### **Temperature Stability:**

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

### **Power Requirements:**

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