

POTENTIOMETER INPUT PLUG-IN ALARM MODULES



JH1800: Single Trip Alarm **JH1820: Dual Trip Alarm**

- Potentiometers from 100 ohms to 100Kohms
- Offset and Expanded Input Ranges
- Switch-Selectable HI/LO Trip Function
- Adjustable Deadband Standard
- Uses Standard 11-Pin Socket
- AC or DC Power Options

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MANUAL

Models JH1800 and JH1820 monitor the position of a potentiometer or slidewire wiper and provide relay contact HI/LO trip outputs. Both are fixed-range devices: you may specify 0/100% input travel or any expanded range covering a 10% or wider portion of the travel.

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 JH1800 provides one set of DPDT relay contacts; Model JH1820, two SPDT relays. AC and DC power options are available.

ORDERING INFORMATION

Model Number: <input type="text"/>	Select JH1800 single
Input Potentiometer: <input type="checkbox"/>	It is <i>not</i> necessary
Input Range: <input type="text"/>	Specify 0/100%, or any 10% or wider portion
Trip Point: <input type="text"/>	If you would like the trip
Relay Action: <input type="text"/>	Standard is <i>Fail-safe</i>
Power: <input type="text"/>	Specify 115Vac, 230Vac
Urethane Coating: <input type="text"/>	

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:** Potentiometer clockwise (or 100%) end connection.
- Pin 3:** Power (AC or, if DC power option, DC minus).
- Pin 4:** Potentiometer counterclockwise (or 0%) end connection.
- Pin 5:** Potentiometer wiper.
- 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

Input Potentiometer:	May be any resistance between 100 ohms and 1000 ohms.
Input Capabilities:	0 to 100% travel, or any 10% or wider portion of range.
Relay Contacts:	Single Alarm, one DPDT.
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.

JH1800-JH1820 Potentiometer Input Plug In Alarm Module

Written by Administrator

Monday, 06 June 2011 03:26 - Last Updated Monday, 29 August 2011 02:12

Guaranteed Operating Temperature:

-10 to +60 deg. C (14 to

Temperature Stability:

+/-0.02% of span per de

Power Requirements:

AC, 115 or 230Vrms, 50