

THERMOCOUPLE INPUT PLUG-IN ALARM MODULES



JH1200: Single Trip Alarm **JH1220: Dual Trip Alarm**

- Available for All Thermocouple Types
- In-The-Terminal Cold Junction Compensation
- Low-Drift Input Amplifier
- Jumper-Selectable Upscale/Downscale Burnout
- Switch-Selectable HI/LO Trip Function
- Adjustable Deadband Standard
- AC or DC Power Options

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MANUAL

Models JH1200 and JH1220 Thermocouple Alarms monitor temperature as measured by a thermocouple 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. Model JH1200 provides one set of DPDT relay contacts; Model JH1220, two SPDT relays. Alarm contacts are rated at 5 amps, 230Vac or 30Vdc.

The cold junction sensor is encapsulated into the input terminals for maximum accuracy. A low-drift input amplifier maintains accurate setpoints with changing ambient temperatures. An internal jumper allows HI or LO trip indication upon thermocouple burnout. AC and DC power options are available.

ORDERING INFORMATION

Model Number: <input type="text"/>	Select JH1200 single
Thermocouple Type: <input type="text"/>	Specify type J, K, T, E, I
Input Range: <input type="text"/>	Specify any input range
T/C Burnout Indication: <input type="text"/>	Specify upscale (high) or
Trip Point: <input type="text"/>	If you would like the trip
Relay Action: <input type="text"/>	Standard is <input type="text"/> Failure

Power:

Specify 115Vac, 230Vac

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).

The thermocouple connects to a small terminal block (which also contains cold junction compensation) on the side of the module. The remaining 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: No connection.

Pin 5: No connection.

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 Capabilities:	Any input span 4mV or higher. Offset
Input Thermocouple Type:	Any standard thermocouple type (J, K, T,
Thermocouple Burnout Indication:	selectable upscale (offscale high
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 p
Guaranteed Operating Temperature:	-10 to +60 deg. C (14 to
Temperature Stability:	+/- (0.02% of span) plus 1
Power Requirements:	AC, 115 or 230Vrms, 50