

Analog Input Signal “Smart Relay” Threshold Alarm
with Local LED Indication

OVERVIEW



- Comparison Threshold Alarm
- LED Alarm Indication
- Dry Contact N.O. Relay
- Trigger with an Analog DC Signal
- Input Range 0-10 VDC or 4-20 mA
- Activation Trigger > 3 VDC or 6 mA
- Ideal for Advantage III (A3) Products
- Convert AO Alarm to LED/Relay Alarm
- Simple Terminal Block Connections
- 1-year Warranty

The ALRT-100 accepts a binary analog output signal for applications requiring local or remote visual or contact closure alarming. The device provides a visual LED indication as well as a contact closure relay capable of passing up to 3 amps at 30VDC or 24 VAC.

Typical Applications

- ◆ Convert Analog Signal Alarms to Visual or Contact Closure Alarms
- ◆ Gold & Hybrid Transmitter Enhanced Alarming

Benefits

- ◆ Ideal for LEED Compliance when no B.A.S. is Provided
- ◆ Satisfy Fault Detection Requirements of Codes and Standards
- ◆ Detect HVAC System Failure

Product Highlights

- ◆ Fixed Threshold
- ◆ No Setup or Configuration Required
- ◆ Accepts VDC or mA DC Analog Signals
- ◆ Easy to Install
- ◆ Low Cost

General

Input

Type: Analog input (AI1)

Ranges:

Voltage: 0-10 VDC

Current: 4-20 mA (from 4 wire source, no excitation voltage)

Relay:

Type: Dry contact w/onboard jumper to drive a remote LED
(R1=Alarm)

Status: N.O.

Rating: 30 VDC or 24 VAC @ 3 amp. Max.

Analog Input (AI1) Threshold Alarm

Type: Threshold alarm on AI1 > comparison threshold

Comparison Threshold:

Voltage: Fixed at 3 VDC

Current: Fixed at 6 mA

Delay: None

Reset Method: Automatic

Visual Indication: Yes, red LED

Contact Closure Relay Assignment: Yes, R1

Environmental Limits

Temperature: -20 to 120 °F [-28.9 to 48.9 °C]

Humidity: 5 to 95%

Power Requirement: 24 VAC (22.8 to 26.4 under load) @1.5V-A

Dimensions: 3.36H x 4.25W x 1.36D in. [85.2x108.0 x 34.5 mm]