



ADTECH
Analog-Digital Technology, Inc.

The Adtech RBA series temperature alarms accept all standard 2, 3, & 4 wire resistance bulb sensors, such as platinum, nickel, and copper, and provide relay contact outputs.

Differential temperature measurement is provided at no additional cost.

The basic input range is 1.5 to 1,000 ohm resistance spans and the output contacts are rated at 10 amps, 30 VDC, or 250 VAC resistive.

When ten-turn setpoint dials are utilized, sensor linearization for platinum and nickel sensors is provided as an exclusive feature. This provides precise adjustment(s) 0-100% to actual temperature span.

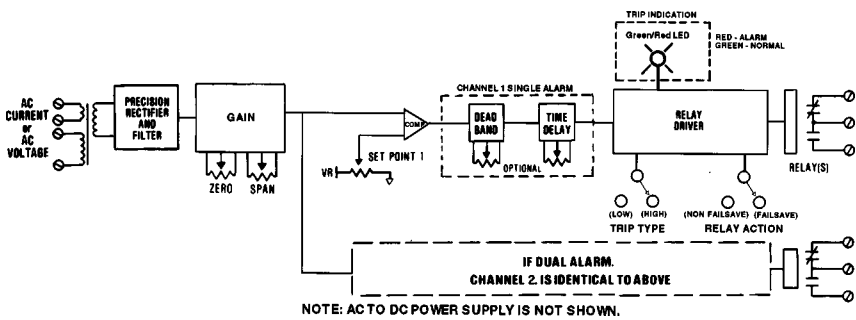
The RBA 174 single alarm has a DPDT output. The RBA 175 dual alarm has a SPDT output per each setpoint and an optional DPDT output per setpoint.

Integral dual color LEDs provide green indication for normal conditions and red indication on alarm per setpoint, independent of relay coil power.

The alarms are furnished as standard with the relay power fail-safe (i.e., relay coil energized) regardless of high- and/or low-alarm configurations. You may specify the relays to be non-fail-safe (i.e., relay coil de-energized) or any combination at no extra cost and are mounted in the "wide-line" (2.75" wide) enclosure.

The RBA 174 and RBA 175 are supplied with a fixed dead band of 0.5% of span as standard. They are optionally supplied with adjustable dead band of 1 to 100% of input span. Ten-turn calibrated dials are offered as an option for both the setpoint and dead band at a nominal extra cost.

An adjustable time delay of 1-30 seconds may also be provided as an option. This is useful to prevent false alarms due to signal transient noise-interference.



Features

- **Direct Resistance Bulb Inputs:** Platinum, nickel, copper; two, three, or four wire
- **Input Spans:** 1.5 ohms to 1,000 ohms--standard
- **Lead Wire Compensation:** Three and four wire-type sensors; constant current excitation
- **Repeatability:** $\pm 0.1\%$ of span
- **Universal Relay Action:** Fail-safe or non-fail-safe for high and low trip
- **Contact Status:** LED indication: green--normal; red--alarm
- **Adjustable Dead Band:** 1-100% of input span--optional
- **Adjustable Time Delay:** 1-30 seconds--optional
- **Calibrated Set Point and Dead Band:** Ten turn--optional

Resistance Bulb Alarms

Model Nos. RBA 174 Single, RBA 175 Dual

Typical Applications

- **Direct contact input(s) to annunciators, lights and horns**
- **Machinery and process temperature alarm/protection**
- **Level alarm using resistor tapes**
- **On/off temperature control**
- **Sensor interface to computer/programmable controllers**
- **High/low temperature alarm**
- **HVAC applications**
- **Differential temperature detector alarm**

