

TA1 Temperature and Alarm Sensor

The TA1 is a wired thermostat accessory either used as an external temperature sensor or to provide an input for an external thermistor or a dry contact relay. The TA1 is compatible with the TS200, TS200H, TS250, and TS250H. Connecting the TA1 is simple and provides a wide range of input flexibility. Most common applications for a TA1 include: averaging temperature between it and a thermostat; using it as a thermostat’s external temperature probe; mounting one in a coldbox for temperature monitoring; using one as an input for a supply air temperature probe; or using one as a dry-contact input for an occupancy sensor. Only one TA1 can be used per Pelican thermostat.

+ SPACE TEMPERATURE

Mounting a TA1 in a space and wiring it to a Pelican thermostat allows the TA1 to be set as the thermostat’s temperature sensor for temperature control. The TA1 can also be set as an averaging temperature.

+ DUCT TEMPERATURE

The TA1 has a two-wire input for a 10K Type II external thermistor. Most commonly used to monitor discharge air or outside air.

+ COLDBOX MONITORING

Mounting a TA1 directly inside a coldbox provides virtual monitoring of the coldbox temperature. Pelican provides settable safe ranges for email/text notifications. For temperatures below -4°F an external thermistor will need to be used down to -20°F.

+ DRY-CONTACT ALARM

A TA1 can accept a dry contact relay. Pelican can send a uniquely named email or text message alarm if either the dry-contact opens or closes.

+ OCCUPANCY SENSOR INPUT

A TA1 can accept a dry-contact occupancy sensor. Thermostat will automatically adjust temperature settings based on occupancy.



Specifications

POWER

Hardwire 24VAC, 60Hz; 50 mA
Voltage Range: 23 - 30VAC
Thermistor: 10K Type II

COMMUNICATION WIRING

Three Wires to a Pelican Thermostat (TS200, TS200H, TS250, TS250H)
R: 24VAC C: NEUTRAL D: DATA

OPERATING RANGE

Operating Range -4°F to 160°F (-20°C to 50°C)
Operating Humidity (%RH) 5 to 90% RH; non-condensing
Storage Temperature -20°F to 160°F

INPUT WIRING

External Probe Two Wire, max 100 ft
Dry Contact Input Two Wire, max 150 ft

DRY CONTACT INPUT

Alarming N/O or N/C
Occupancy Sensor N/O = Unoccupied
 N/C = Occupied

TEMPERATURE RANGE DETECTION

Internal Probe -4°F to 120°F
External Probe -20°F to 180°F

SIZE

Inch H 2.5 x W 2.5 x D 0.75
mm H 63.5 x W 63.5 x D 19
Vertical Mounting (with logo at the bottom)

Designed and assembled in the USA
5-Year Limited Warranty

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