PELICAN

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.

Designed and assembled in the USA
5-Year Limited Warranty

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)	

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