PELICAN

TA1 Temperature and Alarm Sensor

The TA1 is a wired thermostat accessory that serves either as an external temperature sensor or as an input for a third-party thermistor or dry contact relay. It is compatible with all Pelican TS and TC model thermostats. Simple to connect, the TA1 offers flexible input options for a wide range of applications. It can be used to average temperature between itself and the thermostat, function as an external temperature probe, monitor conditions inside a cold box, act as a supply air temperature sensor, or provide a dry-contact input from devices such as occupancy sensors. Each Pelican thermostat supports one TA1 connection.

+ SPACE TEMPERATURE
Mounting a TA1 in the space and wiring it to a Pelican thermostat allows the TA1 to act as the primary temperature sensor or combine with the thermostat's internal sensor for temperature averaging.

+ DUCT TEMPERATURE
The TA1 includes a two-wire input for a 10K Type II external thermistor, typically used to monitor discharge air or outside air temperatures.

+ REMOTE TEMPERATURE MONITORING
The TA1 enables monitoring of external spaces, such as cold boxes or freezers, independent of the thermostat's location. It supports alert notifications, and for temperatures below -4°F, an external thermistor is required to monitor down to -20°F.

+ DRY-CONTACT MONITORING
The TA1 can accept a dry contact relay and trigger a uniquely named email or text alarm when the contact opens or closes.

+ OCCUPANCY SENSOR INPUT
The TA1 can accept a dry-contact occupancy sensor, allowing the thermostat to automatically adjust temperature settings based on occupancy status.

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 (TS or TC Series)

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)