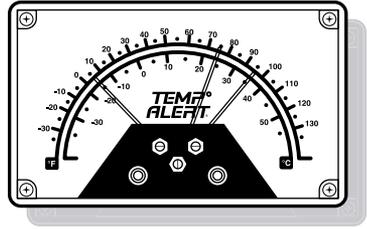




**WINLAND**  
ELECTRONICS, INC.

# TEMP°ALERT®

Powerless Temperature Monitoring with Single Output



TA-1

## CONTENTS

This package contains:

- One (1) TA-1
- Two (2) mounting screws and two (2) wall anchors
- Mounting template (inside this Instruction Guide)
- One (1) Installation/Operating Instructions Guide

## SPECIFICATIONS

Power Requirement

No power required to operate.

Operating Temperature

**Alarm Use:** 50 to 130° F (10 to 54° C); non-condensing environments only.  
Alarm contacts may not function outside of this range.

Low Limit Adjust Range

-30 to 120° F (-34 to 49° C)

High Limit Adjust Range

-20 to 130° F (-29 to 54° C)

Temp Accuracy

±3°F (±1.7° C)

Temp Response Time

TC = 14 minutes

Temp Sensing Element

Bimetallic Coil

Outputs

Gold plated N.O. dry contacts (**Not for high voltage use.**)

Contact Output Rating

50mA @ 12VDC

Weight

6.5 oz (.18 kg)

Dimensions

6.25 x 3.75 x 2" (15.9 x 9.5 x 5.1 cm)

Material

ABS

Mounting

Key slot

Tech Support 8:00am - 5:00pm Central Time

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## **INTRODUCTION**

The Temp° Alert® has been designed for reliable monitoring of non-condensing (indoor only) environment areas where high and low temperature limits are critical.

Select an acceptable temperature range by setting the adjustable high and low limit arms. If the monitored are temperature either rises or falls to the limit arms, the temperature indicator will contact one of the limit arms. This completes the circuit and provides you with a dry contact alarm signal. The TA-1 contacts are normally open (N.O.) dry contacts rated at 50mA at 12 VDC . This output can be used to activate alarm systems, telephone dialers, or other remote warning devices. Temp° Alert® is the ideal addition for any security system.

## **LOCATION**

In specifying the location and number of TA-1s to install consider room size, effectiveness of the ventilation system, and critical monitoring areas. If the building already has an energy management system, an easy rule of thumb to follow is to install a TA-1 near each thermostat. It should be mounted on a wall or other vertical surface in the area where temperature is to be monitored. Make sure it is well clear of windows, doors, or heat sources that could cause an inaccurate reading of air temperature. When protecting a building against freeze damage, always install at least one Temp° Alert® on every level of the home or business.

## **INSTALLATION**

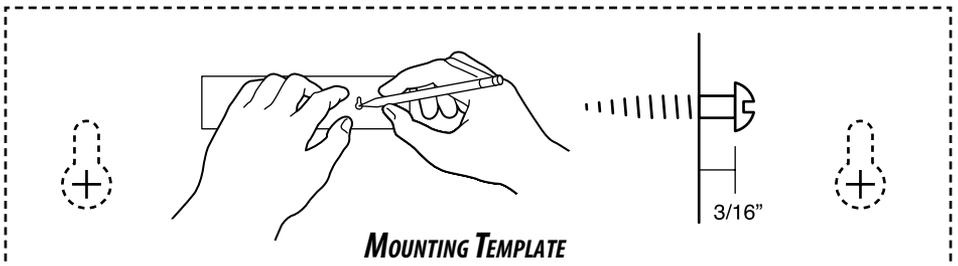
Items needed:

- Standard screwdriver
- 11/32" wrench
- 22-18 AWG twisted pair

### **STEP 1 – ATTACH TA-1 TO MOUNTING SURFACE**

Position the mounting template in the desired location and mark the mounting holes. Depending on the type of surface you are mounting to, you may need to predrill holes to accept the mounting screws alone, or use the plastic anchors and mounting screws. Drive the screws into the mounting surface, allowing approximately 3/16" between the screw head and the mounting surface. (See Mounting Template below.) Engage the key slots on the back of the TA-1 case with the screw heads and press down.

**To insure proper operation, test weekly.**



## STEP 2 – MAKING THE WIRING CONNECTIONS

Connect the TA-1 to your warning device by attaching a 22-18 AWG twisted pair cable from (2) front mounted terminals of the TA-1 to an open zone on your alarm panel, telephone dialer, wireless transmitter, etc. See Figure 1.

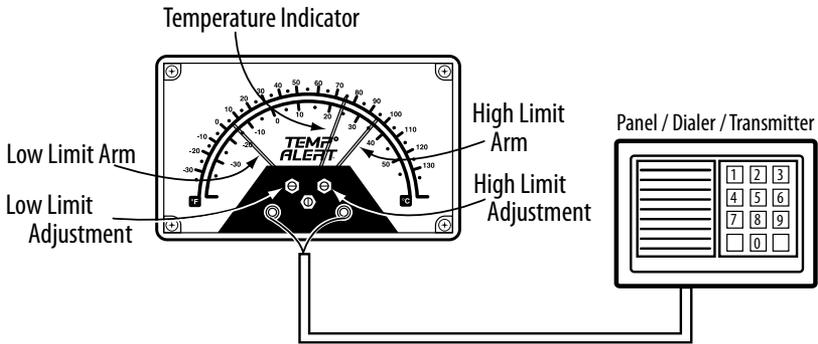


Figure 1

## STEP 3 – SETTING THE HIGH AND LOW SET POINTS

Each limit arm is controlled by an adjustment screw. To set a limit arm, slightly loosen the appropriate locknut (turn counter clockwise) with a 11/32" wrench (See Figure 2). Next, use a screwdriver to set the limit arm to the desired temperature limit (See Figure 3). Once the arm is in the proper setting locations, retighten the locknut (turn clockwise) (See Figure 4). Avoid over tightening of the locknut. Repeat this process until both temperature limits have been set. Make sure to retighten the locknut when temp limits have been set. The TA-1 will not function properly if the locknut is not retightened.

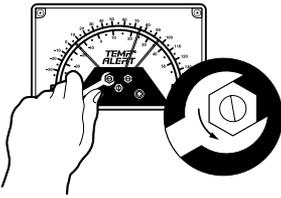


Figure 2

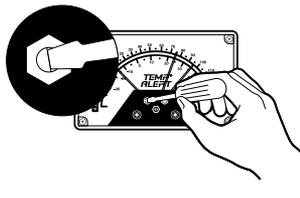


Figure 3

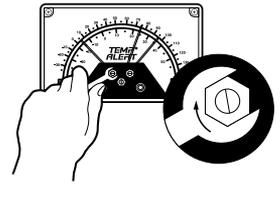


Figure 4

## OPERATION AND TESTING PROCEDURES

To manually activate the TA-1 for testing, loosen the locknut of one limit arm and use a screwdriver to move the limit arm toward the temperature indicator until it makes contact and temporarily tighten the locknut. If installed correctly, this test procedure should activate the warning device to which the TA-1 is connected. After testing, loosen the locknut, return the limit arm to its original set point and tighten the locknut. The same test procedure should also be repeated with the second limit arm to verify proper operation.

### **IMPORTANT:**

Do not use the TA-1 in a cooler or freezer. Frost buildup and moisture can cause the unit to malfunction. For cooler & freezer applications, use an EnviroAlert® device with a remote probe.

## WEEE Product Recovery/Recycling for EU Customers

In an effort to improve waste management in the European Union, the European Union has enacted directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE Directive). According to the WEEE Directive, Winland Electronics must take back waste electrical or electronic equipment covered under the WEEE Directive, at its cost, for all product it puts on the market after July 1, 2006. The Return Process: Contact Winland via our web site at [www.winland.com](http://www.winland.com).

### Applicable Directives

RoHS Directive 2002/95/EC; WEEE Directive 2002/96/EC

### Statement of Compliance:

Winland Electronics, Inc. hereby declares this device is in compliance with all the applicable Directives 2002/95/EC, 2002/96/EC. This device is considered a passive EM device and is thereby excluded from the scope of the EMC directive 89/336/EEC and Low Voltage Directive 73/23/EEC.

### Symbols on the Product or Manual Labeling



For product disposal, ensure the following:

- Do not dispose of this product as unsorted municipal waste.
- Collect this product separately.
- Use collection and return systems available to you.



WEEE Waste Electrical and Electronic Equipment  
RoHS Restriction of Hazardous Substances

## ONE YEAR LIMITED WARRANTY

Winland Electronics, Inc. ("Winland") warrants to the end user/purchaser that each product of its manufacture shall be free from defects in material and factory workmanship for a period of one year from the date of purchase, when properly installed and operated under normal conditions according to Winland's instruction.

Winland's obligation under this warranty is limited to correcting, without charge, at its factory any part or parts thereof which shall be returned to the factory, by the original purchaser, transportation charges prepaid, within one year of the date of purchase and which upon examination, shall disclose to Winland's satisfaction to have been originally defective. Correction of such defects by repair to, or supplying replacements for, defective parts shall constitute fulfillment of all Winland's obligations to purchaser under this limited warranty. Repair service performed by Winland after one year from date of purchase will be for a reasonable service charge.

This limited warranty shall not apply to any of Winland's products which have been subject to misuse, negligence or accident or which have been repaired or altered outside of Winland's factory. The warranty is void if the Product's housing or cover is removed.

Winland shall not be liable for loss, damage or expense resulting, directly or indirectly, from the use of its products or any other cause.

This warranty shall be null and void in its entirety if: (i) the product is altered or modified in any way that is not consistent with the manufacturer's instructions, or (ii) the product is used with or connected to a device: (a) that such product is not intended to be used with or connected to, (b) is not otherwise consistent with the manufacturer's instructions, or (c) is not otherwise approved by the manufacturer.

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