



# TEMP°ALERT®

Mechanical Temperature Monitoring



### This Package Contains:

- 1 MTA-2
- 1 Mounting Kit (2 screws and 2 anchors)
- 1 Product Guide

### Features:

- Mechanical temperature monitor with dual high and low output
- Connects to most hardwire or wireless alarm systems
- Separate output for high and low alarm signals
- Normally Open ("N.O.") device

### Note:

- Do **NOT** put the MTA-2 device in the cooler/freezer environment. Use an EnviroAlert® or EnviroAlert Professional® with a hardwired sensor for cooler/freezer applications.
- Test device weekly to ensure proper operation

### Specifications:

Power Requirements	No power required to operate
Alarm Use	20 to 110 °F (-6.7 to +43.3 °C)
Display Use	0 to 120 °F (-17.8 to +48.9 °C)
Low Limit Adjust Range	20 to 100 °F (-6.7 to +37.8 °C) non-condensing environment
High Limit Adjust Range	30 to 110 °F (-1.1 to +43.3 °C) non-condensing environment
Minimum Temperature Span	10 °F (5.6 °C) recommended distance between high and low set points
Temperature Accuracy	±3.0 °F (±1.7 °C)
Temperature Response Time	TC = 14 minutes
Sensing Element	Bimetallic coil
Outputs	12V DC at 50mA with gold plated N.O. dry contacts. ( <b>NOT</b> for high voltage)
Weight	6oz (170.1g)
Dimensions	4.5" x 3.25" x 1.0" (11.4cm x 8.3cm x 2.5cm)
Mounting	Surface mount (key slot)
Case Material	ABS



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mta-2.winland.com  
 D-011-0125 REV B (12/2023)

### **Installation Items Needed:**

- 1 Standard screwdriver
- 1 Mounting Kit (2 screws and 2 anchors)
- 18-22 AWG twisted pair

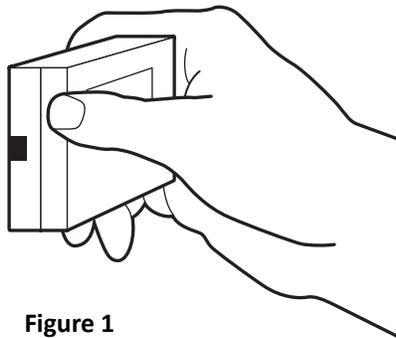
### **Location:**

In specifying the location and number of Temp°Alerts® to install, consider room size, effectiveness of the ventilation system, and critical non-condensing (indoor only) environment monitoring areas. If the building already has an energy management system, an easy rule of thumb to follow is to install the MTA-2 near each thermostat. It can be mounted on a wall or other vertical surface in the area where temperature is to be monitored. Make sure it is clear of windows, doors, or heat sources that could cause inaccurate reading of air temperature. When protecting a building against freezing damage, always install at least one Temp°Alert® on every level of the home or business.

### **Step 1 - Opening the Case:**

Begin with the device facing you. Turn the device 90 degrees to the right to expose the left end of the case. Notice the left end of the back plate has been tooled with a single attachment hole. Whereas the right end has not. Grasp the device with your right hand, position your thumb on the center of the left end of the device above the seam with your remaining fingers on the right end of the device (See Figure 1). Press hard with your thumb to disengage the latching pin. Separate the two halves by pulling the device away from the back plate.

To open the case, squeeze firmly with your thumb and pull front plate away from the back plate.



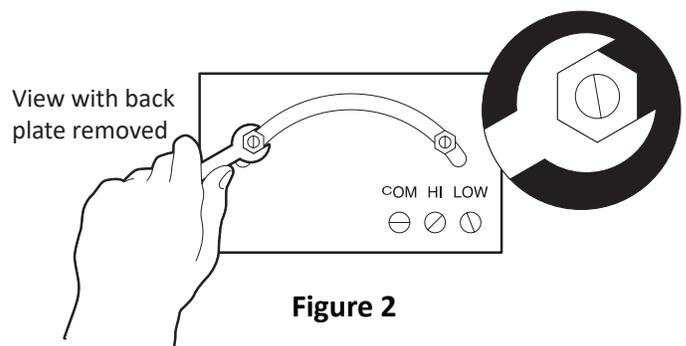
**Figure 1**

### **Step 2 - Attach Back Plate to Mounting Surface:**

After you have determined a location for the device to be mounted, position the back plate of the device on the mounting surface with your hand and mark the center point of the mounting holes with a pen or other marking device. Mount the back plate to the wall using the included mounting kit. Depending on the type of surface you are mounting to, you may need to predrill holes to accept the mounting screws alone, or the plastic anchors and mounting screws.

### **Step 3 - Select the High and Low Set Points:**

Each limit post is controlled by a locknut. Use a 5/16" nut driver or wrench to loosen (turn counterclockwise) the high and low adjustment posts (See Figure 2). After loosening, slide the posts to the proper temperature setting. Once the posts are in the proper setting locations, simply retighten the locknuts (turn clockwise). Avoid over tightening of the locknut.



**Figure 2**

**Step 4 - Making the Wiring Connections:**

To complete the installation, use a three-conductor stranded or solid wire to connect the MTA-2 to a control panel, dialer, etc. (See Figure 3) for an example of a standard installation that utilizes differentiated notification outputs for high and low temperature occurrences. If desired, the high limit and low limit wires may be connected under a single zone. This is useful whenever a limited number of open zones are available, and you do not wish to differentiate between a high limit and low limit temperature notification.

**Step 5 - Attach Front Plate to Back Plate:**

Grasp the device with your right hand by positioning your thumb on the center of the left end of the device above the locking pin and positioning your remaining fingers on the right end of the case (See Figure 1). Align the retaining tabs on the right edge of the case with the holes on the right edge of the back plate currently attached to the mounting surface. Press hard with your thumb on the left end of the device and swing the device back toward the back plate until the device seats properly into the front plate and the locking pin engages.

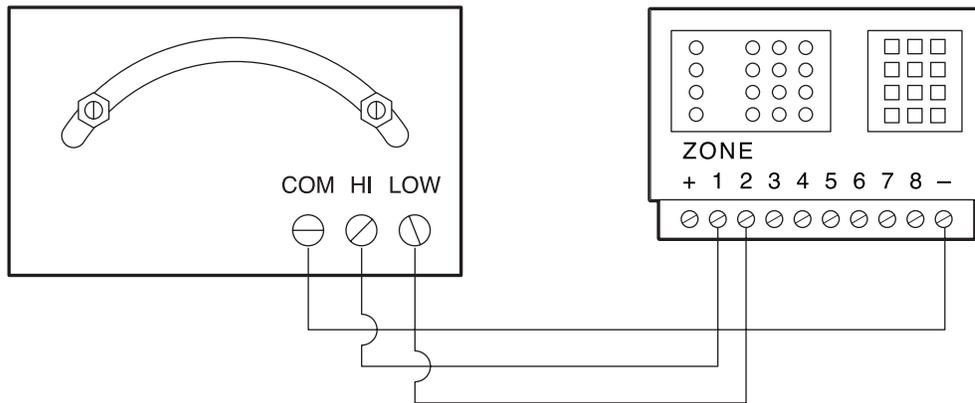


Diagram shown above will activate Zone 1 if the high limit is exceeded and Zone 2 if the low limit is exceeded.

**Figure 3**

**Operation and Testing Procedures:**

To manually activate the MTA-2 for testing, loosen the locknut of one limit post and slide it 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 MTA-2 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.

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