WINLAND MTA-2 Mechanical Temperature Monitoring

WINLAND MTA-2 Mechanical Temperature Monitoring User Guide

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WINLAND MTA-2 Mechanical Temperature Monitoring

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Product Usage Instructions

Step 1 – Mounting the Device

A. Attach Back Plate to Mounting Surface:

Once you have chosen a location for the device, place the back plate on the mounting surface and mark the center point of the mounting holes. Secure the back plate using the provided mounting kit. Depending on the surface type, you may need to predrill holes.

Step 2 – Opening the Case:

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

Step 3 – Setting High and Low Points:

A. Select High and Low Set Points:

Each limit post is controlled by a locknut. Use a 5/16 nut driver or wrench to loosen the high and low adjustment posts. Slide the posts to the desired temperature setting and tighten the locknuts without over-tightening.

WARRANTY AND SERVICE INFORMATION

Winland Electronics, Inc. (Winland) warrants that each product shall be free from defects in material and workmanship for one year from the date of purchase when properly installed and operated under normal conditions according to Winland's instructions.

FAQ

- **Q: What should I do if the device is not functioning correctly?**
  - **A:** If you encounter any issues with the device's operation, please contact Winland's customer service for

assistance.

- **Q: Can I use this device without any power source?**
  - **A:** Yes, this device does not require any power source to operate.

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 the 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. (NOT 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

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, the effectiveness of the venison the 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 the temperature is to be monitored. Make sure it is clear of windows, doors, or heat sources that could cause inaccurate readings 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.

Installation

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. Noce the left end of the back plate has been tooled with a single aching hole. Whereas the right end does not. Grasp the device with your right hand, position your thumb on the center of the le 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.

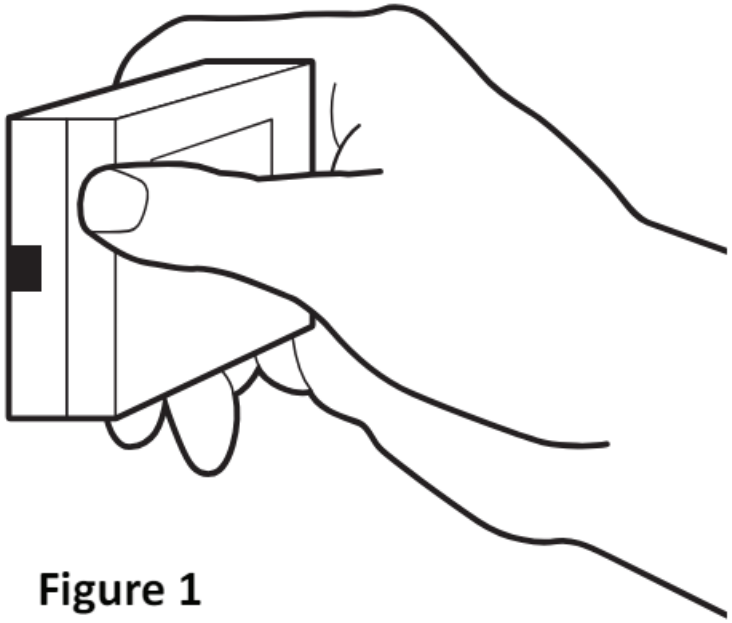

Figure 1

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

Step 2 – Attach Back Plate to Mounng Surface: Aer you have determined a location for the device to be mounted, position the back plate of the device on the mounng 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 theming screws alone, or the plas�c 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.

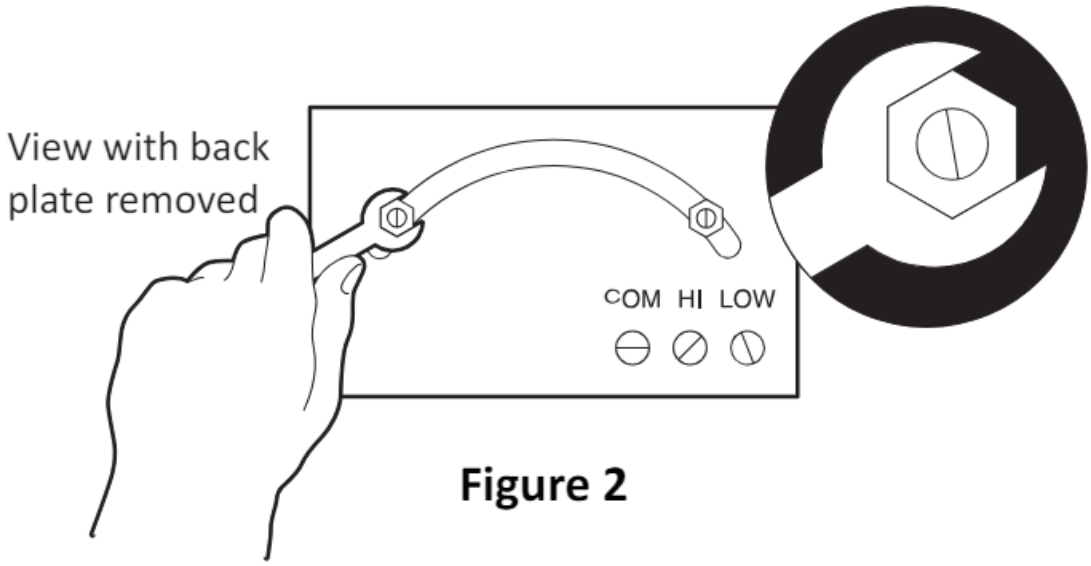

Figure 2

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.

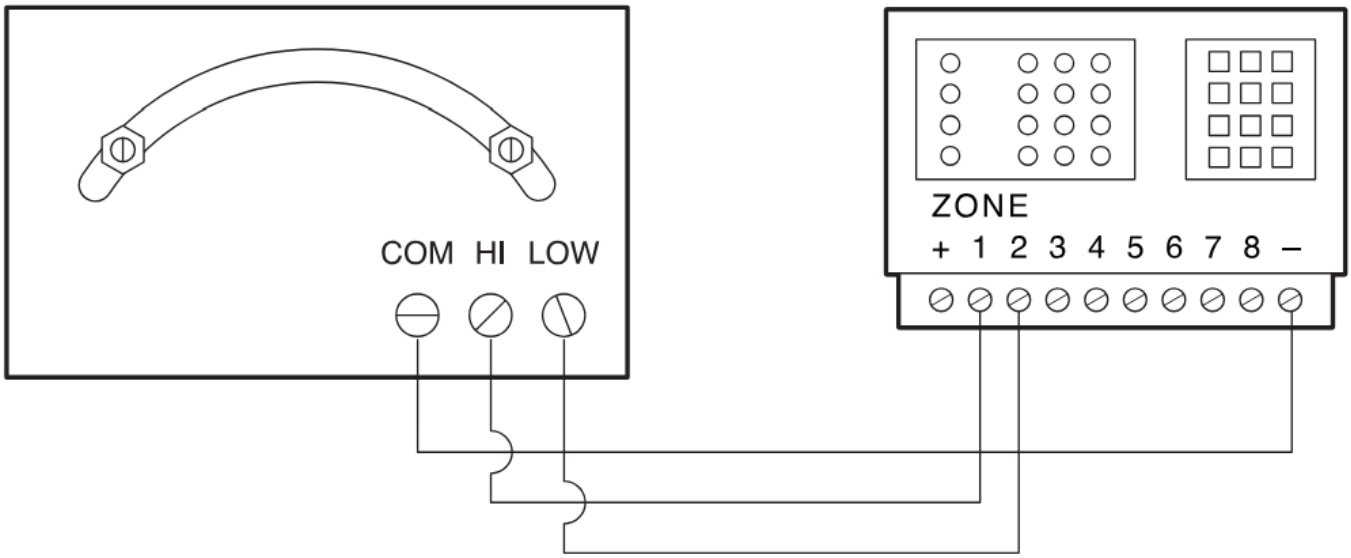

Diagram shown above will activate Zone 1 if the high limit is exceeded and Zone 2 if the low limit is exceeded.

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 nut. 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.

WARRANTY AND SERVICE INFORMATION

Winland Electronics, Inc. (“Winland”) warrants to the original purchaser from Winland that each product of Winland’s that it manufactures shall be free from defects in material and factory workmanship for a period of one (1) year from the date of purchase, when properly installed and operated under normal conditions according to Winland’s instruction.

Winland’s obligation under this limited warranty is limited to correcting the product without charge, at its factory any part or parts thereof which are returned, transportation charges prepaid, to the factory within one year of the date of purchase subject to Winland’s examination showing to Winland’s satisfaction to be covered by this warranty.

Product returns will not be accepted unless a Return Material Authorization has been issued by Winland, which is subject to the purchaser’s identification of the purchase order number and product serial number.

UNAUTHORIZED RETURN SHIPMENT OR SHIPMENT CONTRARY TO WINLAND’S WRITTEN INSTRUCTIONS WILL VOID THIS LIMITED WARRANTY. Correction of such defects by repair, replacement, or refund of the amount paid for the product, at Winland’s option, shall constitute fulfillment of all Winland’s obligations under this limited warranty. Repaired and replacement parts will be warranted for the remainder of the original product warranty. Repairs not covered by this limited warranty may be offered by Winland for a charge.

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Tech Support

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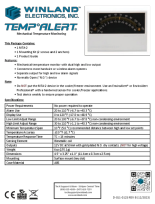
Documents / Resources

	WINLAND MTA-2 Mechanical Temperature Monitoring [pdf] User Guide MTA-2 Mechanical Temperature Monitoring, MTA-2, Mechanical Temperature Monitoring, Temperature Monitoring, Monitoring

References

- User Manual