

SPECIFICATIONS

Temperature Range:	30° to 100°F (-1° to 38° C)
Temperature Accuracy:	±3°F of indicated temperature
Temperature Response:	Shift from 30° to 100°F (-1° to 38° C) approximately 7" per minute in well stirred air.
Contacts:	Plating: Gold Type: Dry Contact Voltage Ratings: 12 VDC at 50mA (max)
DO NOT USE FOR 110 VAC, HIGH VOLTAGE OR HIGH CURRENT	
(Mounting:	Surface Mount
Dimensions:	4.5" X 3.25" X .75"
Product Weight:	6 ounces
Warranty:	One year limited warranty

**Important: To insure proper operation be
sure to test the unit weekly.**

Mfg. in U.S.A. by:

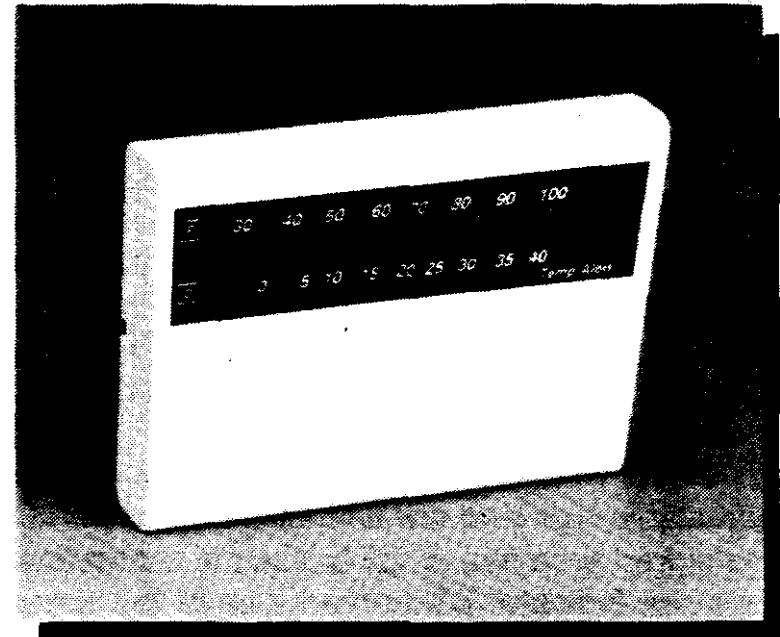


WINLAND ELECTRONICS, INC.

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TEMP°ALERT®

INSTALLATION/OWNERS MANUAL



***Mechanical Temperature Switch With Dual
Dry contact Outputs***

MODEL NUMBER: MTA-1

WINLAND PART NUMBER: 1200



Temp°Alert® model MTA-1

INTRODUCTION

Thank you for your purchase of the Winland Temp°Alert® model MTA-1. Your new Temp°Alert® has been designed for reliable monitoring of areas where high and low temperature limits are critical. Temp°Alert® measures temperatures from 32° to 100° F (0° to 38° C). This unit will separately zone out high and low temperature alarm signals. This unique feature enables you to instantly identify whether your facility being monitored has a high or low temperature condition.

Simply select an acceptable temperature range by setting the adjustable high and low limit stops. If temperatures in the monitored area rise or fall below the preset limits, the temperature indicator will contact one of the preset limit stops. This completes the circuit and provides you with a dry contact alarm signal. The MTA-1 contacts are normally open dry contacts rated at 50 mA 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.

The packaged you purchased should contain:

- Temp°Alert® unit
- Two mounting screws and two plastic wall anchors

LOCATION

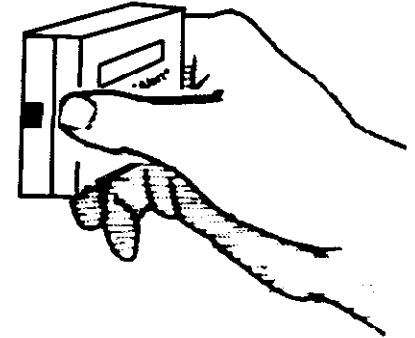
In specifying the location and number of Temp°Alerts® to install consider room size, effectiveness of the ventilation system, and critical monitoring areas. If the building already has an energy management system, an easy rule of thumb to follow is to install a Temp°Alert® near each thermostat. It should be mounted on a wall or 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.

INSTALLATION: Step 1 - Opening the Case

You will need a phillips screwdriver, and a 5/16" wrench or nut driver to install and set the Temp°Alert®.

Decide on the best location, turn the unit so that the front is facing you. Next turn the unit 90° to expose the left end of the case. Note that the left end has been tooled with a single attachment hole whereas the right end has not.

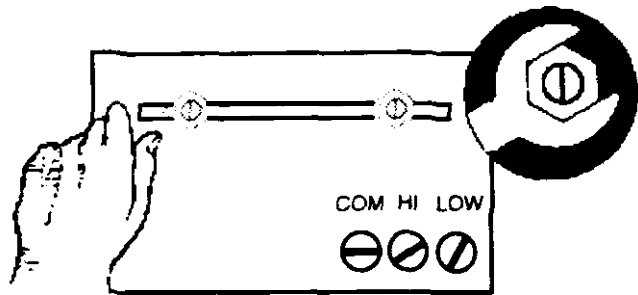
To open the case squeeze firmly with your thumb and pull front face plate away from the back plate



To open the case press **hard** at the center of the left end of the case with your thumb to disengage the **case** locking pin (just ahead of the thumb in diagram on previous page). Next, to separate the two halves pull the front of the case away from the back plate.

Step 2- Selecting the Hi and Lo setpoints

Each limit post is controlled by a locknut. Use a 5/16" nut driver or wrench to loosen (turn counter clockwise) the high and low adjustment posts and then slide them to the proper temperature setting. Be careful not to remove the nut from the limit post. Once the proper setting has been reached simply retighten the lock nuts (turn clockwise). Avoid overtightening of the locknut.

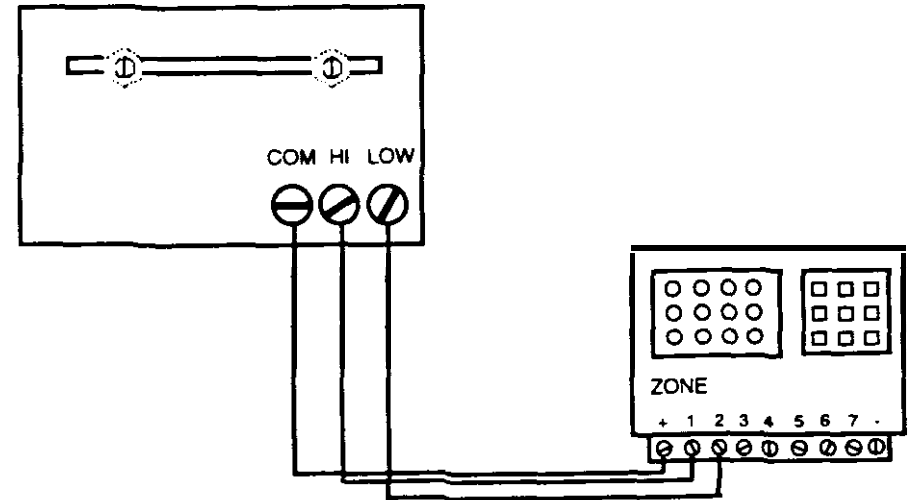


(Viewed with back cover removed)

Step 3 - Making the wiring connections

To complete the installation, use three conductor stranded or solid wire to connect the **Temp°Alert®** to a control panel, dialer, etc. For the proper wiring sequence see below:

If desired, the HI limit wire and LOW limit wire may be connected together 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 or low temperature problem.



The wiring diagram shown above will activate zone 1 if the high limit is exceeded and zone 2 if the low limit is exceeded.

Important: To insure proper operation be sure to test the unit weekly.

Step 5 - Operation and Testing Procedures

For proper operation, the Temp°Alert® must be located in an area where the temperature range is within +30° to 100° F (-1° to 38° C). To manually activate the Temp°Alert® for testing, loosen the locknut of one limit post and slide until it makes contact with the temperature indicator. If installed correctly, this test procedure should activate the warning device to which the Temp°Alert® is connected. After testing, reset the limit arm and tighten the locknut.

Important: To insure proper operation be sure to test the unit weekly.

Important: Do not use MTA-1 Temp°Alert® in a freezer or other location where frost is present. The frost can build up on the indicator posts and cause the unit to malfunction. For these applications use one of the digital Temp°Alerts® (TA-2HLD, UTA-1, or DTA-4) with remote probe and built-in defrost timers.

Helpful Hint: Occasionally during shipping or handling, the Temp°Alert® may get knocked out of calibration. If you feel that the Temp°Alert® is displaying temperatures a degree or two higher or lower than the actual temperature simply adjust your high and low temperature limits up or down to allow for the calibration error. If the amount of error is serious call Winland's technical support for special recalibration instructions.