Temp Minder™ Installation Guide

Temperature List

Walk In | Freezer | Lo Boy

39.2 | -3.0 | 37.8

11:06am

Menu Select List

877.ICC.8788

Integrated Control Corp.

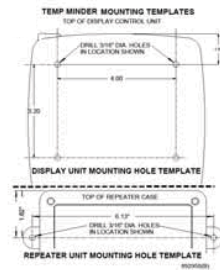# Installation Instructions

1 — What's in the box?

The standard Temp Minder™ box consists of the following parts:

Temp Minder™ Display Control Box	Temperature Transmitter Up to 24	Installation Kit	Repeater
		(1) 25' Cat5 Cable	# of repeaters included in
		(1) 8' Cat5 Cable	the installation kit is
		(1) AC-DC Power Supply	determined during walk
		(1) Power Over Ethernet	through or phone survey
		Adapter (POE)	
		Mounting Hardware	

2 — Mounting the Temp Minder Color™ Display Control box

The Temp Minder™ display box should be mounted in an area that is centrally located in the kitchen. Included in the installation kit is a mounting template that can be used for aid in drilling mounting holes. The display requires power and an internet connection.

1. Position the display control box and the drill template into the desired location and tape the template into place.
2. Drill the two mounting holes as indicated on the drill template.
3. If required push the drywall anchors into the holes.
4. Tighten the supplied screws into the wall anchor leaving ½ inch space between the wall and the screw head.
5. Mount the display unit and if necessary adjust the screws in or out until the box is firmly mounted to the wall.

QUICK TIP

Tip: The display should be mounted in a location that is centrally located amongst the refrigeration. A chef's office would make most sense. This helps with limiting the number of repeaters needed and with ensuring that the unit is not tampered with.
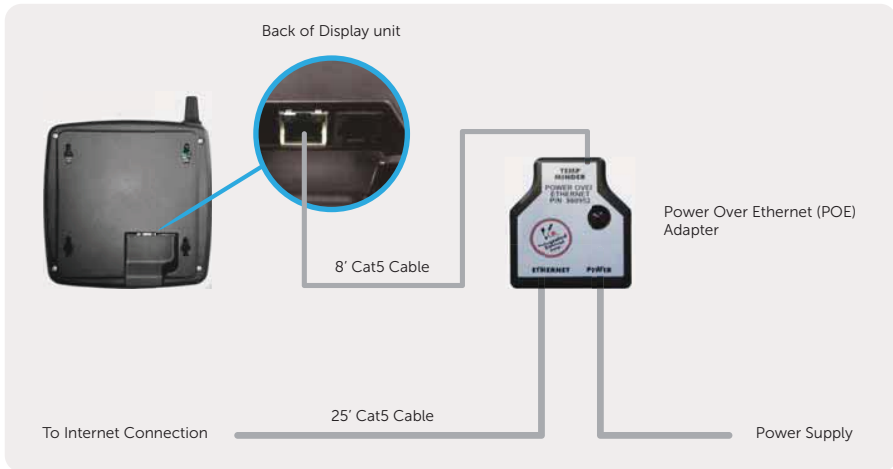
Tip: One display unit should be used in each kitchen or "area". The signal strength will not be as reliable if trying to transmit temperature to a display between floors or across a long distance on the same floor.

Tip: Use the cable clamps provided in the installation kit to secure the cables!

3 – Connecting the cables

Connect the cables using the wiring diagram below. After connecting the cables use the provided cable clamps to secure the cables.

Back of Display unit

Power Over Ethernet (POE) Adapter

8' Cat5 Cable

To Internet Connection

25' Cat5 Cable

Power Supply

4 – Placing Temperature Transmitters

Repeaters may be required and can be purchased separately

Turn on Transmitter

1. Locate the Temp Minder™ Set Up form that was shipped with the box.
2. Locate the device to be monitored that is the farthest distance from the Temp Minder™ Display Control Box.
3. Pull the tab located on the side of the Transmitter

4. Look at the display screen. On the list screen, find the transmitter that was activated when the tab was pulled and verify that there is a temperature reading for that transmitter.

Mounting Temperature Transmitter

Mount the transmitter in the device to be monitored using the ICC provided zip tie, or screw. The optimal mounting is to zip tie the transmitter to the existing shelving (as shown in the photo on the right) towards the side so the transmitter cannot be obstructed or damaged by product being stored.

Tip: If mounting the transmitter directly onto a metal wall in a walk-in or reach-in, space the transmitter off the wall by using the nylon spacer that is provided in the probe installation hardware kit

Testing for signal strength

1. After mounting the probe, return to the display unit
2. Press the menu key and then press option 2 "Probe Settings" on the display touch screen.
3. Press "Signal" on the touch screen
4. On the display to the right of the probe name and to the left of the temperature, observe the time in seconds counting up.
5. If the number resets to 1 every 10 to 30 seconds no repeater is needed for that transmitter.
6. If the number consistently counts above 50, proceed to the installing repeater section

Signal Period		
Position01	0013	76.2
Position02	0019	76.1
Position03	0019	76.1
Position04	0010	76.1

Rt|Avg|Pk

Installing Repeater (sold separately)

1. Mount a repeater between the display control box and the transmitter, 5 to 10 feet from the transmitter.
2. Plug the power supply labeled "FOR USE WITH ICC REPEATER ONLY" into the repeater and a power outlet.
3. After installing the repeater view the signal period and verify the number is resetting to 1 every 10 to 30 seconds.
4. If the number consistently counts above 60, use another repeater with different DIP switch settings (see below)
5. Mount another repeater with different DIP switch settings between the first repeater and display control box 25 to 35 feet away from the first repeater.
6. Repeat steps 2 - 5 mounting additional repeaters until the signal period is constantly below 60.

Tip: Repeaters tend to get unplugged!! Use the power supply bracket provided in the installation kit to secure the power supply to the wall outlet.

Tip: Repeaters transmit temps for as many probes as are in its "coverage" area. Repeaters also receive and transmit temperatures from other repeaters.

Tip: The repeater is a better "receiver" than the display unit due the LCD display creating "noise". It is highly recommended that a repeater be placed within 10 feet of the display even if the signal period for all probes is resetting consistently.

Repeater Dip Switches

Side view of DIP switch on 905 PCB

When using multiple repeaters, change the DIP switch settings as shown on the right.

Repeater #1
Switches 3 & 4 down= 100 ms transmit delay.

For the repeater furthest from the TempMinder control (Repeater #1), use the settings: 3 & 4 down/on.

Repeater #2
Switches 3 down 4 up = 200 ms transmit delay.

The next repeater (#2) should have 3 down/on, 4 up/off

Repeater #3
Switch 3 up & 4 down = 300 ms transmit delay.

Continue in this sequence, no two adjacent repeaters should have the same settings.

Repeater #4
Switch 3 & 4 up = 400 ms transmit delay.

Installing Long Range Repeater (Sold Separately)

A long range repeater can be used for temperature transmitters that are more than 100' away from the display control box. Rather than mounting several repeaters to transmit the signal back to the display control, one set of long range repeaters may be mounted (one within 20 feet of the temperature transmitter(s) and one within 20 feet of the display control). If using a second long range repeater in the installation, there is no need to mount a second long range repeater near the display control.

Installing Door Open Sensor (sold separately)

1. Mount the transmitter in the device to be monitored using the ICC provided zip tie or screw. The optimal mounting is to zip tie the transmitter to the existing shelving (as shown in the photo on the right) towards the side so the transmitter cannot be obstructed by product.
2. Mount the door open sensor that is attached to the temperature transmitter near the door. (Use the ICC provided screws to mount.)
3. Mount the sensor that is stand alone onto the door no more than 2.5" away from the sensor that is attached to the transmitter. (Use the ICC provided screws to mount.)

Temp Minder™ System Warranty and Customer Support
Limited Factory Warranty

Integrated Control Corp. (ICC) warrants the products listed below that it manufactures and distributes (the "Products") to be free from defects in materials and workmanship, under normal use and service, for periods as stated starting on installation or first data transmission.

ICC warrants the following Product components to be free from defects in materials and workmanship commencing with installation for the period(s) of time and on the conditions listed below:

Warranty

Product	Part Number	Warranty Period
Temp Minder™ Control	980950	12 Months
Temp Minder™ Repeater	980905	12 Months
Temperature Transmitter	980902	12 Months - Excludes Battery
POE Adapter	980952	12 Months
Temperature Transmitter w/ Door Open Sensor	980902-20	12 Months - Excludes Battery
Remote Probe	980902-13	12 Months - Excludes Battery
Dishwasher Temp Probe	980902-50	12 Months - Excludes Battery
1 Year Depot Service	Return Authorization must be requested in advance	Replacements require a credit card guarantee prior to shipping

This Warranty covers normal wear and tear of parts, factory service labor charges, shop fees, disposal fees, ground freight charges to end users, help desk fees, troubleshooting and diagnostic fees.

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