T360-3

Thermostat Application Guide Power Type

Description	
Gas or Oil Heat	Yes
Electric Furnace	Yes
Heat Pump (No Aux. or Emergency Heat)	Yes
Heat Pump (With Electric Aux.)	Yes
Heat Pump (With Gas Aux.)	No
Multi-Stage Systems	No
Heat Only Systems - Floor or Wall Furnace	Yes
Cool Only Systems	Yes
High and Low Fan Speed	Yes
Millivolt	No
Emergency Heat	No
Conventional Single Stage Furnace	Yes
Geothermal	Yes

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Battery Power Hardwire (Common Wire) Hardwire (Common Wire) with **Battery Backup**

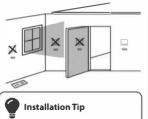
A trained, experienced technician must install this product.

Carefully read these instructions. You could damage this product or cause a hazardous condition if you fail to follow these instructions.

Una version en español de este manual se puede descargar en la pagina web de la compañia.

Wall Locations

The thermostat should be installed approximately 4 to 5 feet above the floor. Select an area with average temperature and good air circulation.

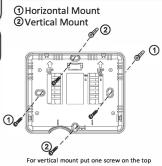


Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.

Do not install thermostat in locations:

- Close to hot or cold air ducts · That are in direct sunlight
- With an outside wall behind the thermostat
- In areas that do not require conditioning
- Where there are dead spots or drafts (in corners or behind doors)
- Where there might be concealed chimneys or pipes

Subbase Installation



and one screw on the bottom

For horizontal mount put one screw on the left and one screw on the right.

Installation Tip: **Electrical Hazard**

Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.

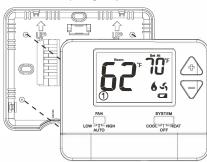
Mercury Notice

All of our products are mercury free. However, if the product you are replacing contains mercury, dispose of it properly. Your local waste management authority can give you instructions on recycling and proper disposal.

Installation Tips

Mount Thermostat

Align the 4 tabs on the subbase with corresponding slots on the back of the thermostat, then push gently until the thermostat snaps in place.



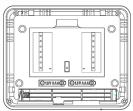
Battery Installation



Battery installation is optional if thermostat is hardwired (R and C terminal connected to 24V

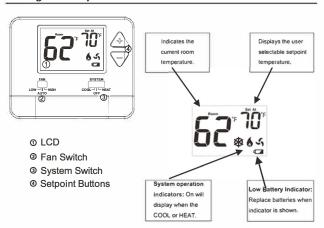
High quality alkaline batteries are recommended. Rechargeable batteries or low quality batteries do not guarantee a 1-year life span.

Insert 2 AAA Alkaline batteries (included). High quality alkaline batteries are recommended.



Thermostat Quick Reference

Getting to know your thermostat



Wiring

- 1. If you are replacing a thermostat, make note of the terminal connections on the thermostat that is being replaced. In some cases the wiring connections will not be color coded. For example, the red wire may not be connected to the R terminal.
- 2. Loosen the terminal block screws.
 Insert wires then retighten terminal block screws.

R

C

В

GL

GH

W

Conventional

Transformer power

Transformer common

Fan Relay, Low

Fan Relay, High

First stage of heat

First stage of cool



Installation Tip

Do not overtighten terminal block screws, as this can damage the terminal block. A damaged terminal block can keep the thermostat from fitting on the subbase correctly or cause system operation issues.

Max Torque = 6in-lbs.

Heat Pump

Transformer power

Transformer common

B/O Changeover valve See Tech Set Up

Fan Relay, Low

Fan Relay, High

Second stage of heat
First stage of heat & cool

Wiring Tips



Caution: Electrical Hazard

Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.

Warning:

All components of the control system and the thermostat installation must conform to Class II circuits per the NEC Code.

C Terminal

The C (common wire) terminal does not have to be connected when the thermostat is powered by batteries.

Wire Specifications

Use shielded or non-shielded 18-22 gauge thermostat wire.



Note:

When connecting the MMW-2 to a PTAC, refer to the PTAC manufacturer instructions to enable remote thermostat operation.



NOTE:

When installing the GWT01NE thermostat onto a Distinctions branded PTAC, please ensure dip switch S3 is set to the UP position and dip switch S9 is set to the down position. After setting the correct dip switch positions, please unplug the unit for 10 seconds to save the settings

Wiring

This thermostat is shipped from the factory to operate a conventional heating and cooling system. This thermostat will also operate a heat pump system. See the "heat pump" configuration step on page 10 of this manual to configure the thermostat for heat pump applications.

Wiring Diagrams

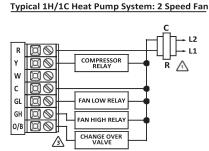
A Power supply

Jumper (not supplied) to connect GL and GH terminals.

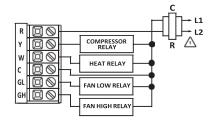
Thermostat must be set to O and B to match the changeover valve, O is the cool changeover valve, B is the heat changeover valve.

4 The Aux Heat Relay is energized as the second stage of heat.

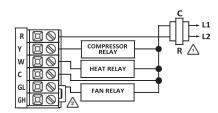
Wiring Diagrams

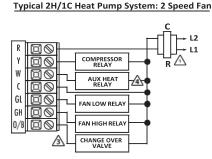


Typical1H/1CSystem:2SpeedFan



Typical 1H/1C System: 1 Speed Fan





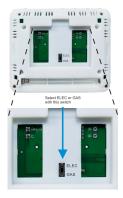


Most PTAC systems support two speed fan operation. In a single speed fan PTAC system or conventional single speed fan system, a jumper should be installed between GL and GH on the thermostat.

Fan Operation Setup

Electric: The thermostat operation jumper pin should be put in the ELEC position. This setting allows the thermostat to operate the fan during a call for heat. Most PTAC systems will require ELEC Fan Operation Setup.

Gas: For systems that control the fan during a call for heat, put the jumper pin into the GAS position.



Technician Setup Menu

- 1.Set the thermostat system switch to OFF. 2.To enter Tech Setup Menu,press and hold "+"and "-"together for 3 seconds.
- 3.Use "+"and"-"to select desired setting for each option.
 4.Tap "+"and "-"together to move next option.
- 5.To exit Tech Setup Menu, move system switch or wait for 15 seconds.

Tech Set	tup Steps	LCD Will Show	Adjustment Options	Default
Room Temperature Calibration	This feature allows the installer to change the calibration of the room temperature display. For example, if the thermostat reads 70' and you would like it to read 72' then select +2.	Cathration *F	You can adjust the room temperature display to read up to 4' above or below the factory calibrated reading.	
Pair	Transmitter and receiver pair code	LE	Press and hold "+" for 3 seconds until "LE" is flashed. Then release	
ForC	Select for Fahrenheit temperature read out select C for Celsius read out.	ok	F for Fahrenheit C for Celsius	ok
Compressor Short Cycle Delay	The compressor short cycle delay protects the compressor from short cycling. This feature will not allow the compressor to be turned on for 5 minutes after it was last turned off.	Con Delay	Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was switched off, Select OFF to remove this delay.	00
Change Over Valve Selection	Select 0 for a changeover valve that energizes in cooling. Select b for a change over valve that energizes in heating.	b [0]	0 for cooling changeover valve.b for heating changeover valve.	Ь
Heat Pump	When turned on the thermostat will operate a heat pump.Y will be the first stage of heat & cool, W will be the second stage of heat.	OF HU	OFF configures the thermostat for non heat pump systems. ON configures the thermostat for heat pump systems.	OFF
Heating Temperature Setpoint Limit	This feature allows you to set a maximum heat setpoint value. The setpoint temperature cannot be raised above this value.	90 *HE	44.0° - 90.0° F 7.0° - 32.0° C	90°
Cooling Temperature Setpoint Limit	This feature allows you to set a minimum cool setpoint valve. The setpoint temperature cannot be lowered below this value.	44 *[[44.0° - 90.0° F 7.0° - 32.0° C	44*

Swing Setting Specifications

- 1.Set the thermostat system switch to the desired position (COOL or HEAT). 2.Press and hold "+"and "-"together for 3 seconds. 3.Use "+"and "-" to adjust desired swing setting (The display reads in tenths
- of a degree.)
- 4. To exit, move system switch or wait for 1 seconds.

Swing S	Settings	LCD Will Show		
Cooling Swing (SYSTEM COOL)	The swing setting, often called cycle rate", "differential" or "anticipation" is adjustable. A smaller swing setting will cause more frequent cycles and a larger swing setting will cause fewer cycles.	O.B. Sarry	The cooling swing setting is adjustable from 0.2 to 2°. For example: A swing setting of 0.5° will turn the cooling on at approximately 0.5° above the setpoint and turn the cooling off at approximately 0.5° below the setpoint.	0.8*
Heating Swing (SYSTEM HEAT)	The swing setting, often called cycle rate", "differential or "anticipation" is adjustable. A smaller swing setting will cause more frequent cucles and a larger swing setting will cause fewer cycles	CS YE	The heating swing setting is adjustable from 0.2 to 2°. For example: A swing setting of 0.5° will turn the heating on at approimately 0.5° below the setpoint and turn the heating off at approximately 0.5° above the setpoint.	0.8*

Swing Setting

The second stage of Heat will turn on at 2x the swing setting. The second stage will turn off when 1x the swing is reached. For example, if the swing setting is 0.8° for heating and the thermostat is set at 70° F, the first stage will turn on at approximately 69.2° F. The second stage will turn on at 68.4°F and the first will turn off at 70.8° F.

RF Pairing

- 1.Receiver: Use a slender object into the hole and keep it depressed (for approximately 5 seconds) until the red LED starts flashing.
- 2. Transmitter: Turn the SYSTEM switch to OFF. Press and hold"+" and "-" together for 3 seconds to access the interface of room temperature calibration. Press and hold"+" and "-" together until"LE" is displayed on the LCD.Then press and hold "+" for 3 seconds , the transmitter will transmit the code signal. When the red LED on the receiver stops flashing, indicating that the code is successful.

MMW-2 Thermostat

WINTER E INCINIOSCAL	
The display range of temperature 32 The control range of temperature 44 Load rating	4°F to 90°F (7°C to 32°Ć) amp per terminal, 1.5 amp
Swing (cycle rate or differential)He	poling is adjustable from 0.2° to 2.0°
Power source	to 30 VAC, NEC Class II, 50/60 Hz r hardwire
Ba	attery power from 2 AAA Alkaline
Operating ambient	2°F to +105°F (0°C to +41°C)
Dimensions of thermostat12	
Operating Frequency43	33.92MHz