

# HEATIZON

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## S Y S T E M S

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### HEATIZON MONITOR STATION Part No. M346

Read these instructions in their entirety before attempting to install Heatizon Systems M346 Monitor Station.

#### FEATURES

The Heatizon M346 Monitor Station is designed to activate and monitor up to twelve zones and has the following features.

- The Monitor station will work with both Heatizon Systems low voltage products using controllers CBX6 Series, CBX23 Series, CBX7 Series, SLC500 Series, and Radiant 8 Series as well as the high voltage products which are controlled by an activation device, i.e., snow sensor.
- The Monitor station is a 12VDC powered system with 24VAC being provided for activation device power which is provided by a wall plug transformer that plugs into a standard 120VAC 15 Amp receptacle provided with the Monitor Station.
- The Monitor Station allows up to twelve zones to be activated by one activation device.
- The Monitor Station provides two different delays that can be activated independently. The primary delay will manage all 12 zones and a secondary delay will manage zones 9 through 12 which allows for those zones to have an additional delay time.
- The Monitor Station may also be used with many different activation devices and anyone of the Heatizon Relay Panels (Heatizon Part No's. M330, M330G, M330G-40, M330-50).
- The Monitor Station has indicator lights on the front of the enclosure which will show when power is on and what the status of each zone is and when the delay has been activated.

#### SET UP

**Remove Board.** Carefully remove the M346 Monitor Station green circuit board prior to mounting the M346 Monitor Station enclosure. Touch one of the screws securing the board in the enclosure to get rid of any static electricity prior to removing the board.

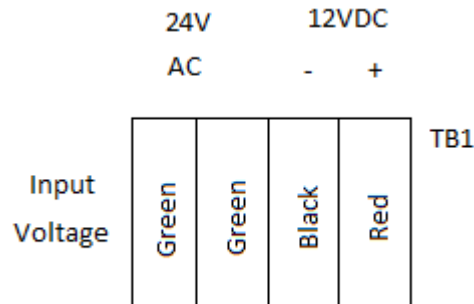
**Mount.** Attach the M346 Monitor Station on studs or other adequate surfaces using the four (4) holes in the back of the M346 Monitor Station enclosure and anchoring devices designed to accept shear loads and lateral loading of 15 lbs.

**Knockouts.** Punch out knockouts for the 12VDC/24VAC power cable coming from the supplied transformer, Activator Device wire, and Zone activation wires.

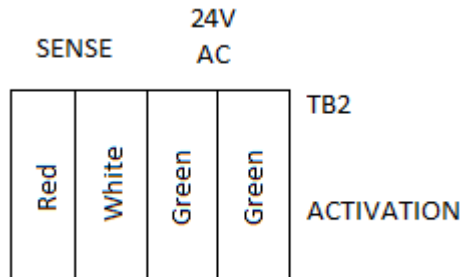
**Install Board.** Using the provided screws, carefully reinstall the M346 Monitor Station green circuit board into the enclosure.

## CONNECTIONS

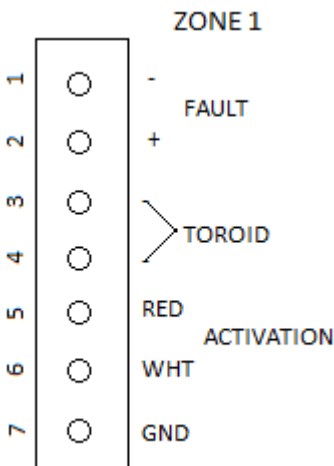
**Electrical Connection.** Connect the 12 VDC/24 VAC power for the M346 Monitor Station to the multi colored terminal block labeled TB1 (Input Voltage) located in the upper right hand portion of the M346 Monitor Station green circuit board. The black wire goes to the black colored position (labeled – 12VDC) on the terminal block. The red wire goes to red colored position (labeled + 12VDC). The green and white wires go to the two green colored positions (labeled 24VAC), there is no polarity. Use a small screw driver and push down on the white tab by each terminal block position and then insert the wire. See diagram below.



**Activation Connection.** Connect the wires from the Activation Device to the multi colored terminal block labeled TB2 (Activation) located in the upper right hand corner below TB1 of the M346 Monitor Station green circuit board. The red wire from the activation device goes to the red colored position and the white colored wire goes to the white colored position (labeled Sense). Connect the 24VAC power wires to the green colored positions. Use a small screw driver and push down on the white tab by each terminal block position and then insert the wire. See diagram below. Note: Activation devices requiring other than 24-volt power must be powered by sources other than the M346 Monitor Station.



**Zone Connection.** Note: All 12 zones are wired the same. Remove the seven position terminal plug from the board. Using a small screw driver, wire the terminal plug as follows. Connect the red and white wires going to the control unit or device onto positions 5 (red) and 6 (white). Connect the toroid wires to positions 3 and 4. Connect the optional WIFI fault indication device with black wire on position 1 (-) and white wire on position 2 (+). Position 7 provides a ground connection if needed.



## OPERATION

**Power Connection.** To turn on the M346 Monitor Station plug in the wall transformer into a 120 VAC wall receptacle. The POWER LED on the front panel indicates that the power is on to the M346 Monitor Station.

**Time Delay.** The M346 Monitor Station allows you to determine the amount of time that All Zones will stay activated after the main sensing device has sent a turn off signal. For Zones 9 through 12 an additional time delay can be selected if desired. S1 selects the time delay for All Zones. S4 selects the time delay for Zones 9 through 12. The delay will keep the zones activated for 0, 1, 2, or 4 hours after the sensing device has sent a turn off signal depending on which position on the delay switches are selected. Set the Time Delay Switch S1 for the desired delay time for all zones. Set the Time Delay Switch S4 for the desired additional delay time for zones 9 through 12. Both delay switches work the same. See the table below. Note: Any time more than one switch is in the on position, the shorter delay will prevail.

### S1 or S4

Position	No Delay	1 Hour Delay	2 Hours Delay	4 Hours Delay
1	On	Off	Off	Off
2	Off	On	Off	Off
3	Off	Off	On	Off
4	Off	Off	Off	On

When the All Zones LED is blinking on the front panel the sensing device has sent a turn off signal and the time delay is running. If there has been additional delay time selected for zones 9 through 12 then the Zones 9 – 12 LED will begin to blink after the All Zones delay has completed the delay time selected.

**Zone Switches.** The Zone Switches marked S2, S3 and S5 allow each zone to be activated or not activated. Zones that are not being used to activate a device or control unit must always be set in the “off” position.

**Zone Status Light.** The LED’s marked ZONE 1 through 12 indicate the status of zone. When the LED is off the zone is not activated. When the LED is green the zone is activated and running normally. When the LED is red the zone is in fault. There are two reasons that the LED would be red and the zone is in fault:

First – The sensing device has sent a turn on signal and the zone has been activated but there is no current sensed from the toroid.

Second – The sensing device has not sent a turn on signal or after the sensing device has sent a turn off signal and whatever delay that was selected has completed current is still being sensed. This might indicated a shorted SCR.

## WARNINGS

Installation of Heatizon Systems products and associated work must be performed by qualified persons and conform to all local building codes, ordinances, and regulations and all applicable sections of the National Electric Code (NEC) and the Canadian Electric Code (CEC).

Risk of fire! Risk of fire is possible if the installation of any Heatizon Systems product is not completed according to all of the installation instructions including but not limited to the warnings and notes.

Risk of Shock and Injury to Persons may occur if all power to any Heatizon Systems product(s) and the activation device is not shut off at the electric distribution panel before installing, removing covers, servicing, or working on any of its components.

Knockout openings made in the M346 Monitor Station enclosure must be filled with devices that are designed to fill such openings.

**Please do not hesitate to call the Heatizon Systems Technical Group at (801) 293-1232 with any comments, questions or problems you have regarding any of Heatizon Systems fine products.**