

PYROBOX3 | Power box with 4 contactors

Features & Benefits

- Automatic control and power distribution for deicing and snow melting
- Energy Efficient algorithm
- Integrated electronic controller with backlit LCD display
- User friendly interface
- Up to 4 zones activation
- Sequencing option between the zones – Allowing larger snow melting area with less available power on site
- Multiple snow sensors input – optional
- Up to 30A & 240V outputs to heaters
- Integrated adjustable Ground Fault Sensor
- Adjustable set-points
- Adjustable Upper and Lower Limit Temperature
- Adjustable Hold On-OFF Delay and Manual On
- Adjustable splitting time between the zones.
- Technician testing / commissioning mode for easy and fast system test all year long (even during summer or at high temp)
- ETL certification



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Description

The outdoor temperature set-point as well as ground upper limit temperature and ambient lower limit temperature can be easily set.

The Technician Settings mode allows installer or technician to adjust the parameters for customized installations.

The PYROBOX3 is a "Plug and Play" controlled power distribution panel for frost protection, ice and snow melting applications.

When receiving a signal from the snow sensor/s, it activates the contactors energizing the heating elements. Based on the DIP switches configuration, the zones are activated either continuously or in customized sequencing between the zones.

The Hold-On (Time delay) is adjustable in the range of 0 to 99 hours.

The PYROBOX3 Built-in Ground Fault interruptor allows settings for the tripping current between 0.01 – 0.1 A.

The GFCI adjustable time delay provides a simple and safe protection from nuisance tripping.

DIP Switches located on the controllers provide easy access to technician mode and to the system configuration settings.

The PYROBOX3 allows snow sensor input both from the PYROSENSE sensors and also from a 3rd party snow sensors.

3 terminals in the PYROBOX3 are available to connect a CIT-1, GIT-1 or SIT-6E sensors and use them to control some or all of the zones.

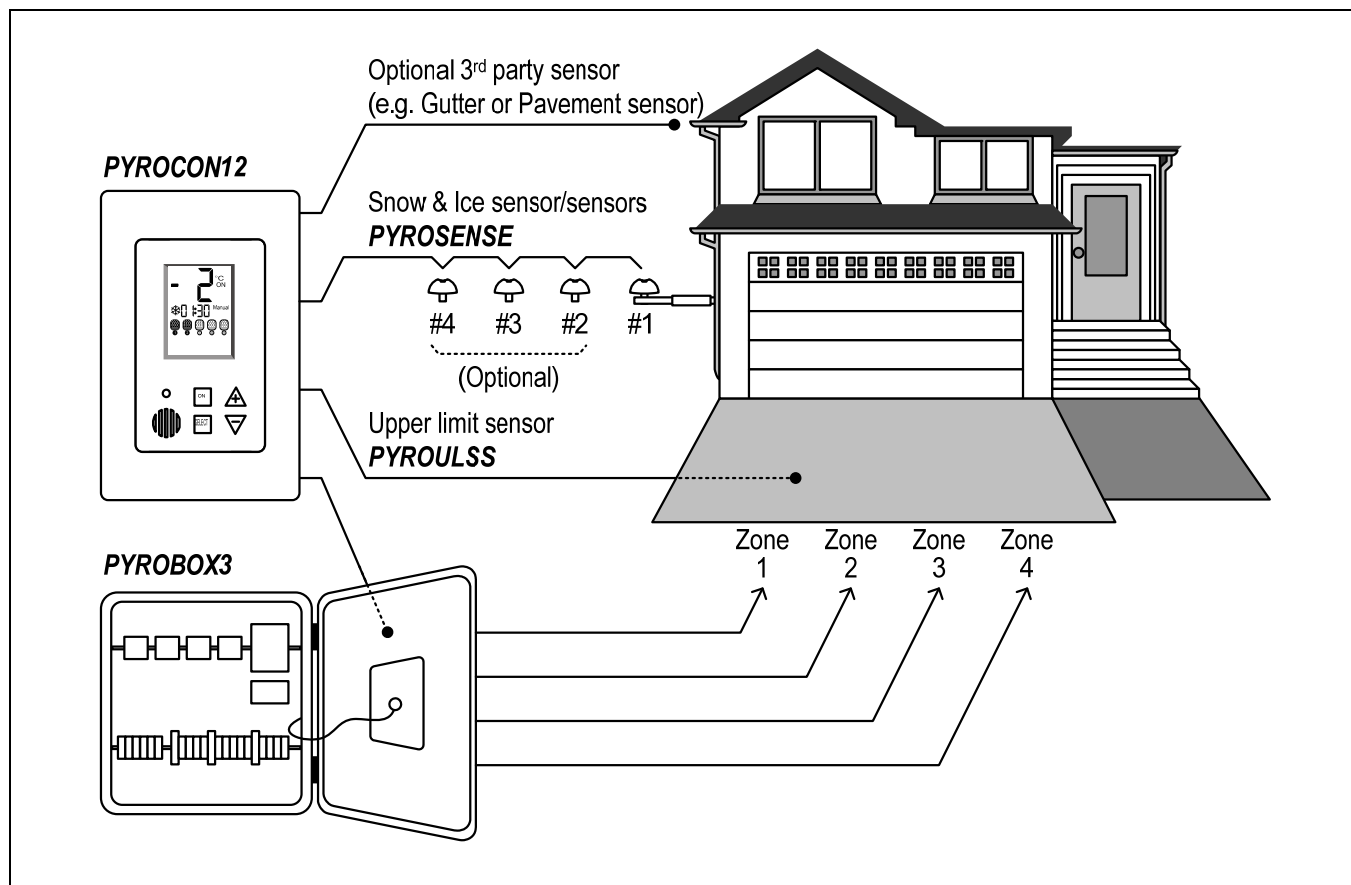
Installing the system is a quick and easy task. Apart of mounting the metal box to the wall, the installer needs only to connect the line in and line out wires in the marked terminals and the system is ready to work.

The parameters that can be modified are as follow:

- Temperature set-point
- Lower ambient temperature limit
- Slab Upper Temperature Limit to deactivate heaters for Energy Efficiency
- Time delay (Hold-on) before deactivating the heaters
- ON time for Manual mode
- Heaters cycle time / Splitting time between zones
- Number of zones and sequence of operation (Sensors and heaters control logic)
- Snow sensor RH sensitivity
- Number of snow sensors connected

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General system layout

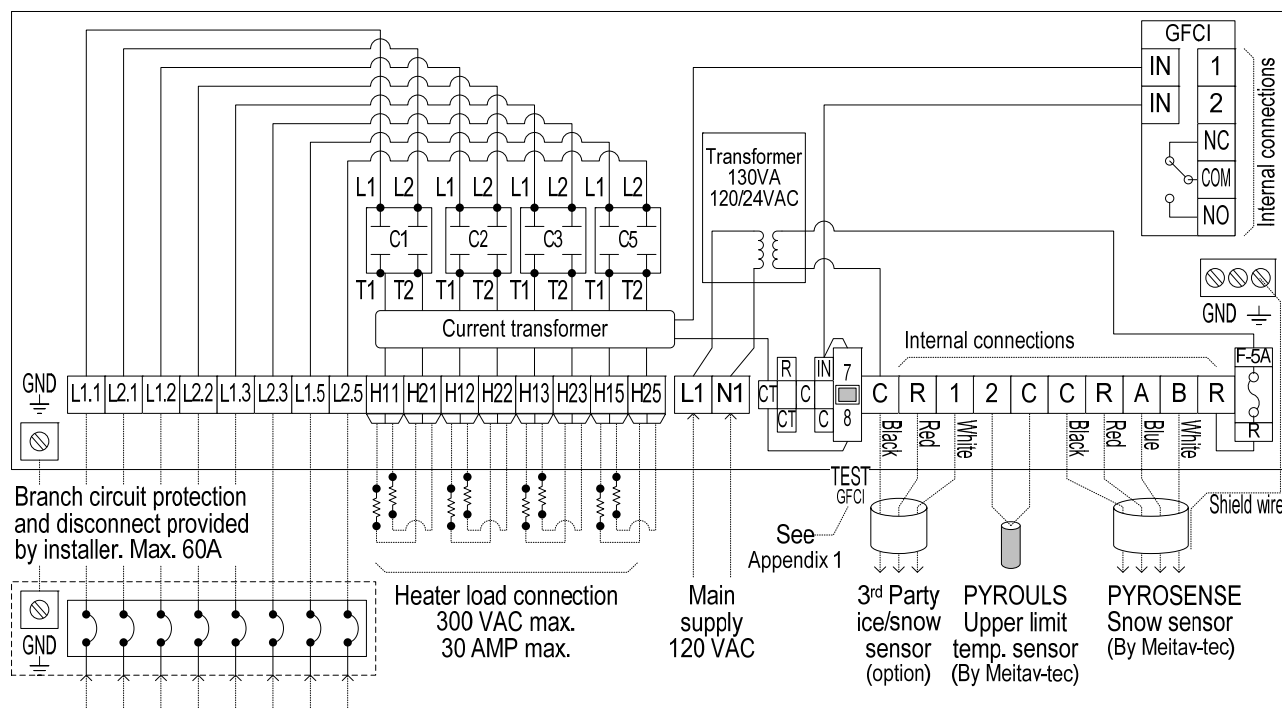


Technical specifications

Approvals	ETL Listed	Manual Reset GFS	Push button on Front Panel
	CAN/CSA-C22.2 No. 14 UL-508A	Four Satellite Contactors	240 VACS, 30 A Max (Resistive), 50/60 Hz, 2-Poles
Enclosure Protection	IP20, Indoor Mounting		
Dimensions	11.8x15x6.1 inch (30x38x15.5 cm)	Terminal blocks	6 mm ² ,10 AWG (max)
Ground Fault Equipment Protection GFCI	Adjustable tripping current 0.01-0.1 A (default 0.03A) Adjustable time delay 0.1-1 sec. (default 0.1 sec.)		

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Wiring diagram



Important!

If the heaters are connected in star, the neutral must pass through the internal current transformer and the external Branch circuit protection.

For further information, operating & installation manual, please refer to our website at www.meitavtec.com

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the local Meitav-tec office or representative. Meitav-tec shall not be liable for damages resulting from misapplication or misuse of its products.

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