

PYROBOX1 | Snow Melting controller

Features & Benefits

- Automatic control box for deicing and snow melting applications
- Energy Efficient algorithm minimizes operating costs
- Integrated electronic controller with backlit LCD display
- User friendly interface
- Multiple snow sensors input – optional
- Up to 30A @ 120VAC or 240V output to heaters
- ETL certification
- Integrated Ground Fault Equipment Protection (30mA)
- Adjustable set-points
- Adjustable Upper and Lower Limit Temperature
- Adjustable Hold On-OFF Delay and Manual On
- Technician testing / commissioning mode for easy and fast system test all year long (even during summer or at high temp)



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Description

The PYROBOX1 is a "Plug and Play" controlled & electrical panel for frost protection, ice and snow melting applications.

When receiving a signal from the snow sensor/s (sold separately), it activates the contactor energizing the heating element.

The outdoor temperature set-point as well as ground upper limit temperature and ambient lower limit temperature can be easily set for various climate conditions, assuring effective snow melting and energy saving.

The Technician Settings mode allows installer or technician to adjust the parameters for customized installations. Cold weather simulation mode provide testing conditions for the installer/technician even during the summer or while outdoor temperature is above freezing.

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

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 after snow stops falling (0-99 hours)
- ON time for Manual mode (0-99 hours)
- Snow sensor RH sensitivity and threshold value
- Number of snow sensors connected

The PYROBOX1 Built-in Ground Fault Equipment Protection (GFEP) allows setting a tripping current of 30mA

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

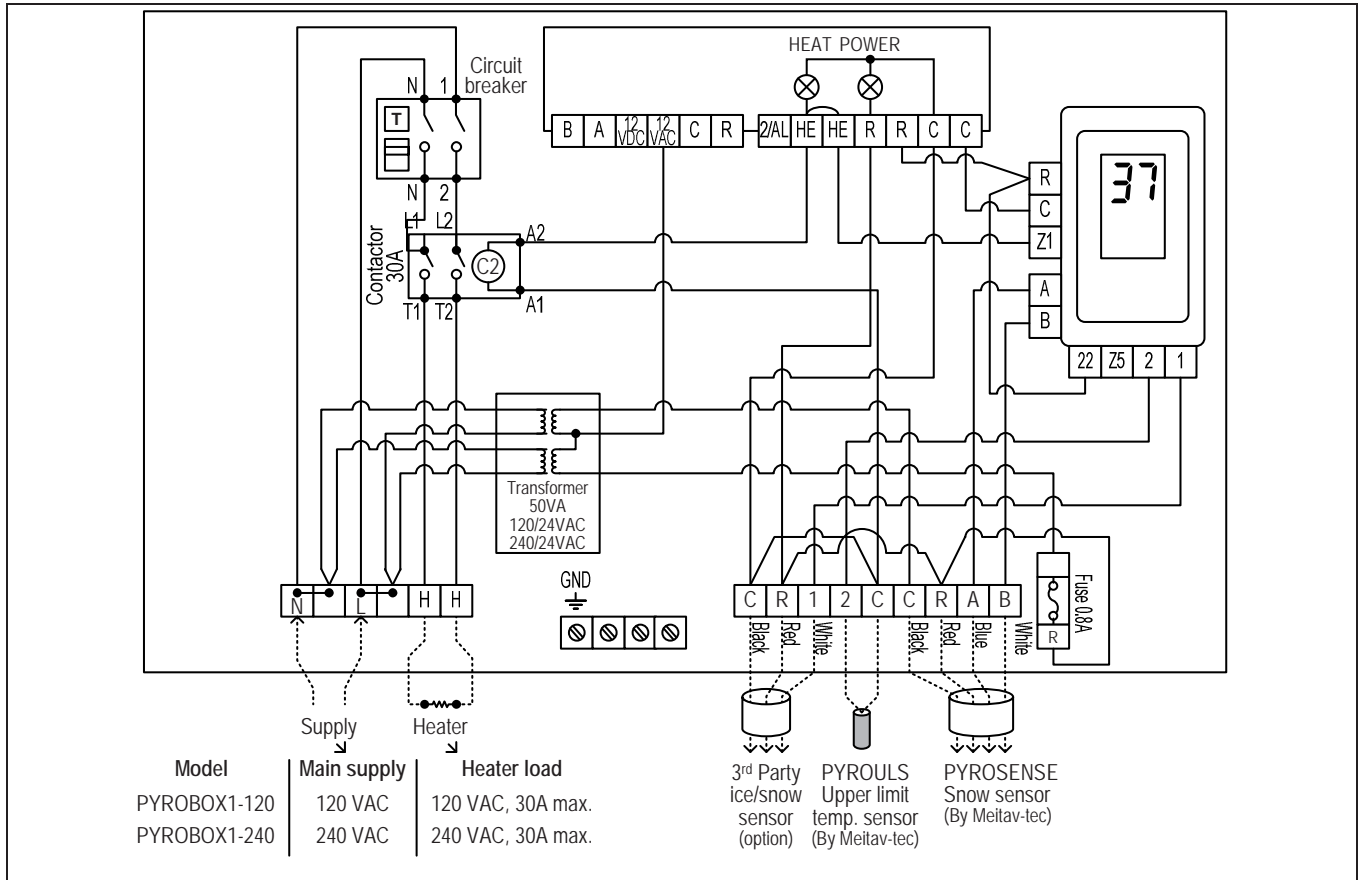
The PYROBOX1 allows snow sensor input both from the PYROSENSE sensor and also from a 3rd party snow sensors.

The PYROBOX1 allows to connect a 3rd party snow sensor (CIT-1, GIT-1 or HSC-5) and use any of them as the system's snow sensor or together with the PYROSENSE.

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

Ordering Information

Part Number	Description
PYROBOX1-120	Snow Melting controller – for 120VAC heating loads
PYROBOX1-240	Snow Melting controller – for 240VAC heating loads
PYROSENSE	Aerial Snow Sensor
PYROSB	Adjustable wall mounting metal bracket for the snow sensor

General system layout and wiring

Technical specifications

Approvals	ETL Listed CAN/CSA-C22.2 No. 14 UL-508A	Manual Reset	Push button on Front Panel
Enclosure Protection	IP20, Indoor Mounting	GFEP	
Dimensions	12.5X9X5.5 Inches (31x23x14cm)	Contactors	<u>120VAC model:</u> 120 VAC, 30 A Max (Resistive), 50/60 Hz, 2-Poles <u>240VAC model:</u> 240 VAC, 30 A Max (Resistive), 50/60 Hz, 2-Poles
Ground Fault	30 mA	Terminal blocks	6 mm ² ,10 AWG (max)
Equipment Protection			
Dimensions	mm and inches Kg. and lb.		

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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