

PYROBOX3 PYROBOX3C PYROBOX5

Installation and Operating manual



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Introduction

The PYROBOX3/3C/5 power boxes together with the PYROCON12 controller and interface panel, offer smart and easy control over the PYRO Snow & Ice Melting system.

It can operate up to 4 snow melting zones and one auxiliary zone, with selectable sequencing method.

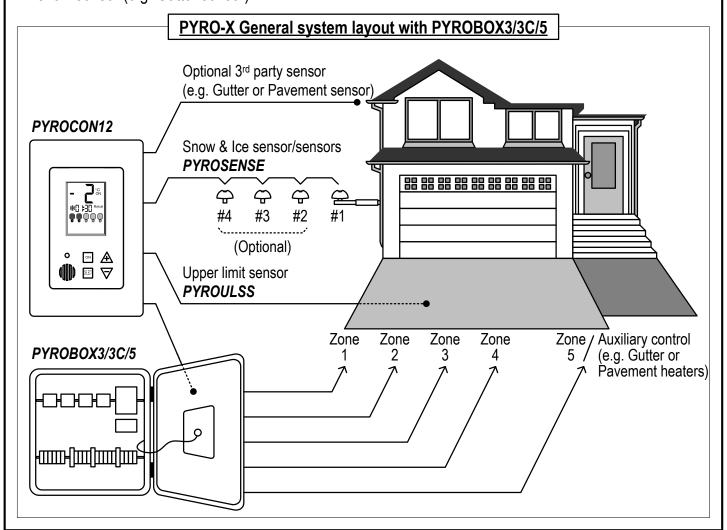
Typical applications include driveways, sidewalks, loading docks, stairs, pavements and gutters.

The backlit LCD screen provides full interface and information of the system status.

The use of several zones staggering allow covering larger area for snow melting with a limited available electrical power.

The PYROCON12 offers various operating and programming options such as:

- Switchable temperature scales (°F or °C)
- Both Automatic and Manual modes
- Adjustable heaters cycle and splitting times
- Adjustable heaters hold on, off & delay
- Optional auxiliary control by 3rd party snow sensor (e.g. Gutter sensor)
- Adjustable Lower ambient temperature limit to stop heaters (lockout)
- Energy saving upper temperature limit
- Adjustable snow sensor sensitivity (%Rh)
- Commissioning/Test mode



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PYROBOX3/3C/5

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PYROBOX Series Installation

PLEASE READ THIS MANUAL AND THE SAFETY WARNINGS CAREFULLY BEFORE INSTALLING AND USING THE CONTROLLER AND SAVE IT FOR FUTURE USE

Installation notes

- Familiarize yourself with the markings, warnings, components and terminology.
- The PYROBOX power boxes and its accessories must be installed by a qualified electrician in accordance with local regulations and the requirements of the NEC (NFPA 72) and the CEC part 1.
- WARNING: Ensure the power is disconnect from all circuits before mounting the power box and making any connections. Contact with components carrying hazardous voltage can cause electric shock and may result in severe personal injury or death.
- Installer must ensure the installation of approved disconnect means, for all power supply circuits feeding this unit.
- The power boxes are suitable for indoor wall mount installation only.
- Ensure wiring according to the provided schematics using copper conductors only.
- Make sure the wire gauge (AWG) is suitable for the circuit amperage draw, as specified in the NEC/CEC table 1.
- Ensure that the main breakers (fuses) are suitable for the heating systems rating (80% load).
- Grounding means must comply with local regulations and CEC/NEC.
- Ensure that the heating system/de-icing system connected to this unit complies with the UL 499 or UL 515 & CSA 22.2 # 130.3 standard and is certified / listed by an NRTL.
- Ensure that all wiring is rated for the application at 60°C (140°F as per UL 515 CSA 22.2 #130 clause 12 table 12.1.
- Ensure that any holes punched for conduit are to compromise the integrity of the enclosure ratings.

Ground fault circuit interrupter (GFCI)

- The ground fault interrupter/residual current detector installed in this system is a Non class A GFCI, intended for equipment protection.
- Familiar yourself with its operation and required setting.
- At installation and commissioning stage use a calibrated milliamp meter to read and record the heating systems natural leakage.
 - Set the GFI/RCD to no more than 30 milliamps higher than that reading.
- This step might have to be repeated a few times, to avoid nuisance tripping.
- The GFCI should be tested monthly. Please refer to the calibration and testing instructions in appendix 1 of this manual.

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Wiring the PYROBOX5

Heater load connection

Provide 3-Phase contactors C1, C2, C3 and C4 with up to 600 VAC, 50 AMP Maximum per pole. Provide contactor C5 with with up to 277 VAC, 30 AMP.

Make sure the wire gauge (AWG) is suitable for the circuit Amperage draw, as specified in the NEC/CEC table 1.

Main supply for the power box

Provide terminals L1, N1 with 120 VAC supply.



Caution: Incorrect voltage may cause fire or seriously damage the unit.

Connection to 3rd party ice/snow sensor (GIT-1 / CIT-1 / SIT/6E) - option

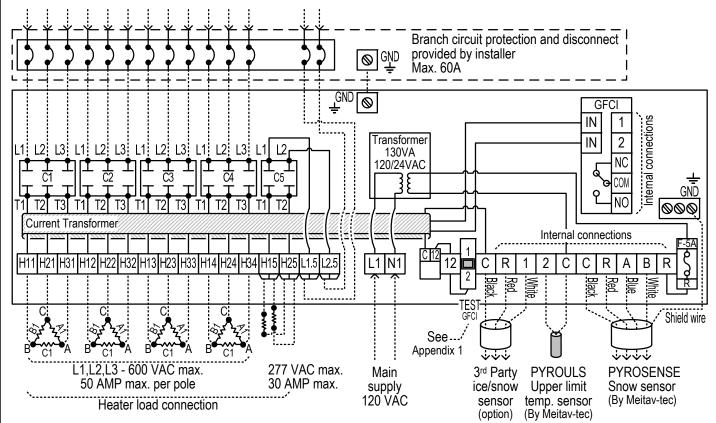
3-wire shielded cable

Up to 2,000 ft (609 m) using 12 AWG 3-wire shielded cable.

Up to 500 ft (152 m) using 18 AWG 3-wire shielded cable.

Connection to snow sensor (PYROSENSE)

Please refer PYROSENSE installation section of this manual.



Important!

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

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Wiring the PYROBOX3C

Heater load connection

Provide 3-Phase contactors C1 and C2 with up to 600 VAC, 50 AMP Maximum per pole.

Provide contactor C5 with with up to 277 VAC, 30 AMP.

Make sure the wire Gauge (AWG) is suitable for the circuit Amperage draw, as specified in the NEC/CEC table 1.

Main supply for the power box

Provide terminals L1, N1 with 120 VAC supply.



Caution: Incorrect voltage may cause fire or seriously damage the unit.

Connection to 3rd party ice/snow sensor (GIT-1 / CIT-1 / SIT/6E) - option

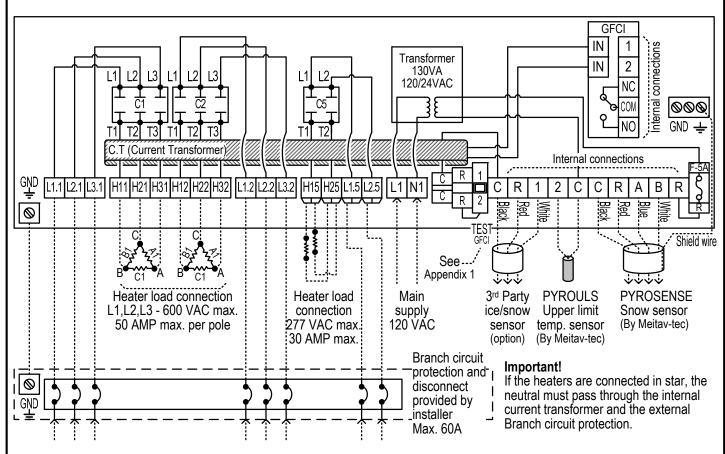
3-wire shielded cable

Up to 2,000 ft (609 m) using 12 AWG 3-wire shielded cable.

Up to 500 ft (152 m) using 18 AWG 3-wire shielded cable.

Connection to snow sensor (PYROSENSE)

Please refer PYROSENSE installation section of this manual.



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Wiring the PYROBOX3

Heater load connection

Provide contactors C1, C2, C3 and C4 with up to 277 VAC, 30 AMP.

Make sure the wire Gauge (AWG) is suitable for the circuit Amperage draw, as specified in the NEC/CEC table 1.

Main supply for the power box

Provide terminals L1, N1 with 120 VAC supply.



Caution: Incorrect voltage may cause fire or seriously damage the unit.

Connection to 3rd party ice/snow sensor (GIT-1 / CIT-1 / SIT/6E) - option

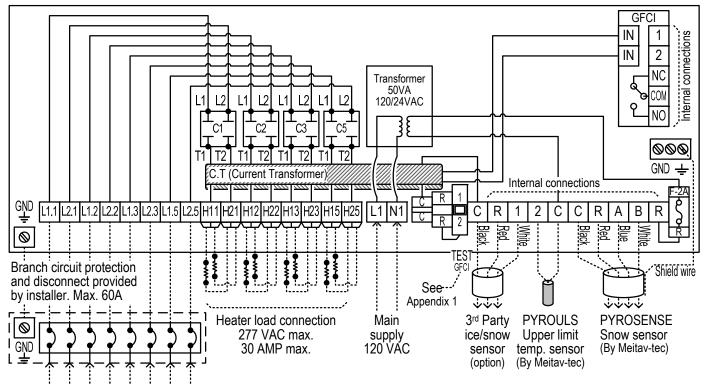
3-wire shielded cable

Up to 2,000 ft (609 m) using 12 AWG 3-wire shielded cable.

Up to 500 ft (152 m) using 18 AWG 3-wire shielded cable.

Connection to snow sensor (PYROSENSE)

Please refer PYROSENSE installation section of this manual.



Important!

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

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Connecting snow sensors to the system

The system can be configured to operate with 1, 2, 3 or 4 snow sensors.

Each snow sensors must have different MAC address in order to communicate with the main board.

The **PYROSESE** snow sensors series includes 4 different part numbers, each is factory pre-configured

with unique MAC address as follows:

PYROSENSE MAC Address 1
PYROSENSE2 MAC Address 2
PYROSENSE3 MAC Address 3
PYROSENSE4 MAC Address 4

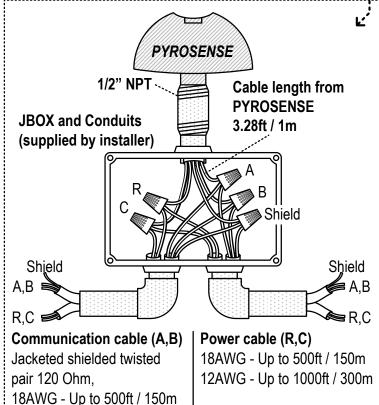
Important! When connecting more than one sensor, snow sensor 1 must be connected last in communication line.

The snow sensors will control zones upon the following logic:

Number of sensors connected	Sensor #	Zones controlled by the sensor
1	1	1,2,3,4,5*
2	1	1,2
_	2	3,4,5*
3	1	1
	2	2
	3	3,4,5*
	1	1
4	2	2
4	3	3
	4	4,5*

^{*}Zone 5 - optional

PYROSENSE4 PYROSENSE3 PYROSENSE2 PYROSENSE (Zone #4) (Zone #3) (Zone #2) (Zone #1) From system A,B A,B A,B R,C R,C R,C



Notes:

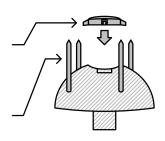
- The number of snow sensors connected must be configured in section P09 of the technician settings.
- When one of the snow sensors cannot be viewed through communication (faulty or not connected), the values on snow sensor 1 will be used instead.

The PYROSENSE is supplied with:

1. A plastic cap, to protect the sensor from dust and debris for when the sensor is not in use (off season).

Important! The protective cap must be removed before use of the sensor. If the protective cap is not removed, the sensor will not detect snow!

2. Plastic spikes, to be used if necessary, to keep birds off the sensor.



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Operating instructions

Green POWER lamp

 The green power lamp will light when power is supplied to the unit (120 VAC)

Red GROUND FAULT RESET lamp and button

- The red GROUND FAULT RESET lamp will lit when the internal GFCI is tripped.
- Press and hold the GROUND FAULT RESET button for 5 seconds to reset the unit.

Turning the system ON and OFF

- Press and hold the [ON] button for 0.5 seconds to turn the system ON or OFF.
- The words "ON" or "OFF" will appear on display.

ON OFF

Selecting temperature scale

- Press the [+] button for Celsius.
- Press the [-] button for Fahrenheit.

°F °C

Selecting Automatic or Manual mode

- Press the [SELECT] button to switch between modes:
 - "Automatic"

Heating will start and stop automatically depending on snow detection by the snow sensor/sensors.

Auto

"Manual ON"

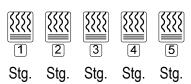
Heating will start regardless of snow sensor measurements and will stop after a preset time (pls. refer to the "Manual ON" section in the technician settings P05).

Note: Mode will always return to "Automatic" after switching the unit OFF and ON.

Manual

Heaters indication

The number beneath the heater icon indicate the heater stage (1 to 5).



Black icon – Heater ON White icon – Heater OFF



Heater ON



Heater OFF

Snow flake icon and digital time indication

A solid snow flake icon will appear on display while sensing snow and during normal heaters operation.



A blinking snow flake icon will appear on display during heaters off delay or when manual mode is activated. The digital clock will count down the remaining time until the heaters are turned off.

The snow flake icon will disappear from display as long as the heaters are turned off.

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Technician settings

Use the technician settings mode to view and adjust the following parameters:

P01	Temperature set point	P06	Heaters cycle time / Splitting time
P02	Lower ambient temperature limit to stop	P07	Sensors and heaters control logic
	heaters	P08	Snow sensor sensitivity
P03	Energy saving, upper slab temperature	P88	Snow detection threshold
	limit to stop heaters	P09	Number of snow sensors connected
P04	Time delay before stopping the heaters	P10	Commissioning / Test mode
P05	ON time for manual mode	Resto	re defaults

Enter technician settings mode

- Move DIP switch S1 located on the side of thermostat to ON position.
- Press the [SELECT] and [+] buttons simultaneously to move forward to the next technician parameter.
- Press the [SELECT] and [-] buttons simultaneously to return to the previous technician parameter.



Enter technician settings mode

Save changes and exit technician settings mode

Move DIP switch S1 located on the side of thermostat to OFF position.

Important: Changes made to technician parameters will not take effect as long as DIP switch S1 is in ON position.



Save changes and exit technician settings mode

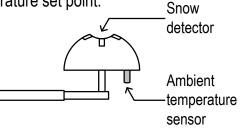
Parameters:

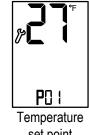
P01 - Temperature set point

- Move DIP switch S1 located on the side of thermostat to ON position to enter technician settings mode.
- "P01" and the temperature set point will appear on display.
- Use the [+] and [-] buttons to adjust the temperature set point.

Range: 19...45°F / -7...+7°C

As long as the ambient temperature is lower than the temperature set point P01, the PYROCON will turn ON upon receiving a positive snow signal from the snow detector.





set point

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P02 - Lower limit temperature for heating

- Press the [SELECT] and [+] buttons simultaneously.
- "P02" and the low limit temperature will appear on display.
 When the temperature on the temperature sensor drops below the low temperature limit, the heating system will stop.
- Use the [+] and [-] buttons to adjust the temperature set point.
 Range: -4...+23°F / -20...-5°C
 Default: -5°F / -20°C
- Press the [SELECT] and [+] buttons simultaneously again.
- The word "ON" or "OFF" will appear on display.
- Use the [+] and [-] buttons enable (ON) or disable (OFF) the P02 parameter.

If disabled, the heating system will operate without low temperature limitations.



Low limit Temperature





P03 – Upper limit temperature for heating

- Press the [SELECT] and [+] buttons simultaneously.
- "P03" and the slab upper limit temperature will appear on display.
- Use the [+] and [-] buttons to adjust the upper limit temperature.
 Range: +41...+86°F / +5...+30°C Default: 86°F / +30°C
- Press the [SELECT] and [+] buttons simultaneously again.
- The word "ON" or "OFF" will appear on display.
- Use the [+] and [-] buttons enable (ON) or disable (OFF) the P03 parameter.

If disabled, the heaters will work regardless of the upper limit.

- Press the [SELECT] and [+] buttons simultaneously again.
- The display will show the temperature on the upper limit sensor.



Upper limit temperature







temperature on heaters sensor

└→ Cont'

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P04 -Time delay before stopping the heaters

- Press the [SELECT] and [+] buttons simultaneously.
- "P04", "dL" and the time delay before stopping the heaters (Hold ON) will appear on display. The hours will blink.
- Use the [+] and [-] buttons to adjust the hours of the time delay.

Range: 00...99 hours

Default: 00 hours

- Press the [SELECT] and [+] buttons simultaneously again.
- The minutes will blink.
- Use the [+] and [-] buttons to adjust the minutes of the time delay.

Range: 00...59 minutes

Default: 30 minutes

Note 1. The time delay countdown will start when the snow detection signal from snow sensor will switch from positive to negative.

Note 2. The staggering sequence will continue during the time delay period.





Time delay minutes

P05 - Manual mode ON time

- Press the [SELECT] and [+] buttons simultaneously.
- "P05", "On" and the "Manual ON" mode time period will appear on display. The hours will blink.

The delay time parameter defines a time frame in which the heaters remain ON after receiving an "Manual ON" command.

Use the [+] and [-] buttons to adjust the hours of the working time.

Range: 00...99 hours

Default: 6 hours

- Press the [SELECT] and [+] buttons simultaneously again.
- The minutes will blink.
- Use the [+] and [-] buttons to adjust the minutes of the working time.

Range: 00...59 minutes Default: 00 minutes



Manual ON hours



Manual ON minutes

P06 - Heaters cycle and splitting time

- Press the [SELECT] and [+] buttons simultaneously.
- "P06", "SP" and the splitting time will appear on display.

The minutes will blink.

The heaters cycle / splitting time parameter defines the working time of the heaters when working in sequence.

Example: the splitting time is set to 10 minutes and 4 heaters work in sequence, each heater will be ON for 2.5 minutes (10/4=2.5).

Use the [+] and [-] buttons to adjust the splitting time.

Range: 10...1999 minutes Default: 24 minutes.



Splitting time

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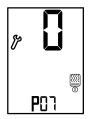
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P07 - Heaters outputs logic controlled by PYROSENSE snow melt sensor or by 3rd party sensor

- Press the [SELECT] and [+] buttons simultaneously.
- "P07" and the figures "0", "1", "2" or "3" will appear on display.
- Use the [+] and [-] buttons to define the heaters logic (model dependent) as follows:









PYROBOX3 utputs 1.2.3 and 5

Value	Outputs controlled by PYROSENSE	Outputs controlled by 3 rd party sensor	Comments
0	All outputs	-	Default
1	1,2,3	5	
2	-	All outputs	The display will not show the ambient temperature and will remain blank.
3	Same	e as 1	

PYROBOX3C utputs 1,2 and 5

Value	Outputs controlled by PYROSENSE	Outputs controlled by 3 rd party sensor	Comments
0	All outputs	1	Default
1	1,2	5	
2	-	All outputs	The display will not show the ambient temperature and will remain blank.
3	Same	e as 1	

PYROBOX5 touts 1.2.3.4 and 5

Value	Outputs controlled by PYROSENSE	Outputs controlled by 3 rd party sensor	Comments
0	All outputs	-	Outputs 4 and 5 will turn ON or OFF together. Default.
1	1,2,3,4	5	
2	-	All outputs	The display will not show the ambient temperature and will remain blank.
3	1,2,3	4,5	Outputs 4 and 5 will turn ON or OFF together.

Note: 3rd party sensors - i.e. gutter or pavement sensors - CIT, GIT, SIT by eti.

└→ Cont'

PYROBOX3/3C/5

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P08 - Snow sensor sensitivity

- Press the [SELECT] and [+] buttons simultaneously.
- "P08" and the snow sensor sensitivity value will appear on display.
- Use the [+] and [-] buttons to adjust the sensitivity.
 Range: 20...80 % (20% Less sensitive, 80% more sensitive), Default: 50 %



Snow sensor sensitivity

P88 - Snow detection threshold

- Press the [SELECT] and [+] buttons simultaneously.
- "P88" and the snow sensor threshold will appear on display.
- Use the [+] and [-] buttons to adjust the threshold.
 Range: 00...60 minutes
 Default: 5 minutes

If the threshold is not reached, the logic of turning the heaters either ON or OFF will not be affected by snow detection.

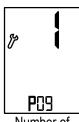
During countdown to threshold time, the snow flake icon will flash.

> ● 00055 PBB

Snow detection threshold

P09 - Number of snow sensors connected

- Press the [SELECT] and [+] buttons simultaneously.
- "P09" and the number of snow sensors connected will appear on display.
- Use the [+] and [-] buttons to select 1, 2, 3 or 4 snow sensors. Default: 1



Number of snow sensors

P10 - Test conditions mode / Technician commissioning mode

Turn ON test conditions to check the functionality of the system regardless of sensors parameters (i.e. during the summer).

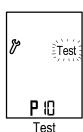
In test conditions, the Ambient temperature is always -5°C/23°F.

Note: In order to trigger the system and activate the heaters, use some water to wet the circuit on top of the snow sensor.

- Press the [SELECT] and [+] buttons simultaneously.
- "P10" will appear on display. The hours will blink.
- Use the [+] button to enter test/commissioning mode "Test" will appear on display.
- Use the [+] button to manually exit test/commissioning mode "Test" will disappear from display.

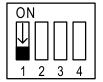
Note: If the technician did not manually exit test/commissioning mode, the unit will automatically return to normal mode after 5 hours.

In order to save changes and return to normal display, move DIP switch S1 back to OFF position.



conditions mode

Save changes and return to normal display



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Restore default values

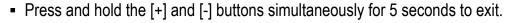
Important: Make sure the unit is turned **OFF** (the word "OFF" should appear on display).

- Move DIP switch S1 to ON position.
- Press and hold the [ON] button for 10 seconds. The thermostat will beep.
- Move DIP switch S1 back to OFF position.

Enable/Disable zones

- Turn the unit OFF.
- While OFF, Press both the [+] and [-] buttons simultaneously for 10 seconds.
- Press the [Select] button to select zone. Selected zone will flash.
- Press the [+] and [-] buttons enable/disable the selected zone.
 Black icon and "ON" on LCD Enabled zone.

White icon and "OFF" on LCD - Disable zone.



Note: Disabled zones will be ignored in splitting time calculations:

Example: the splitting time is set to 60 minutes and heaters are set work in sequence.

3 Heaters enabled and 1 heater disabled.

With all heaters enabled: Each heater will be ON for 15 minutes (60/4=15).

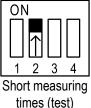
With 3 heaters enabled and 1 heater disabled: Each heater will be ON for 20 minutes (60/3=20).

DIP switch S2 - Short measuring times (test only)

- Use DIP switch S2 to short the measuring times as follows:
 - "ON" Short measuring times for test/commissioning only (measuring times will be divided to 60).
 - "OFF" Normal operation.

Short measuring times:

A real 1 hour will take 1 minute and a real 1 minute will take 1 second.



 $\langle | | | \rangle$

Selected

zone

Disabled zone

Enabled

zone



Normal operation

PYROBOX3/3C/5

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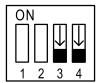
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DIP switches S3 and S4 - heaters sequencing logic

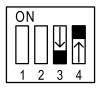
• Use DIP switches S3 and S4 to define the sequencing logic of the heater (zones) as follows:



S3 OFF, S4 OFF

All 4 outputs work per request from the snow sensor(s)

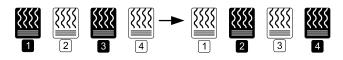


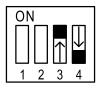


S3 OFF, S4 ON

Outputs 1+3 and outputs 2+4 work together (according to splitting time)

Note: Do not use this configuration with more than two snow sensors connected.



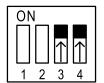


S3 ON, S4 OFF

Outputs 1,2 and 3 work in sequence (according to splitting time) and output 4 works continuously.

Note: Do not use this configuration with more than two snow sensors connected.

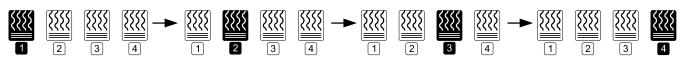




S3 ON, S4 ON

All 4 outputs work in sequence (according to splitting time)

Note: Do not use this configuration with more than two snow sensors connected.



Notes:

- 1. The illustrations above show the heaters operation for the PYROBOX5. The logic remains the same for PYROBOX3C, without heaters 3 and 4, and for PYROBOX3, without heater 4.
- 2. Heater 5 for all models, will be activated with or without heater 4, depending on the "Heaters output logic" parameter set in section P07.
- 3. The logic will ignore disabled zones.

PYROBOX3/3C/5

Owner's manual & Technician Settings

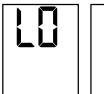
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Temperature reading errors

Ambient temperature sensor readings (on snow sensor) are out of reliable measuring range

Ambient temperature < -9°F/-23°C Ambient temperature > 54°F/12°C





The system will continue to operate using constant predefined values. In addition, the display will alternate between "LO" and -11°F/-24°C for low temperature readings, and between "HI" and 55°F/13°C for high temperature readings.

Error 1 – Communication error with one (or more) snow sensors

"SensErr 1" Will appear on display.

If the system is configured to work with more than 1 snow sensor, the faulty snow sensor number will appear on display: P01, P02, P03 or P04.

Communication error with snow sensors

The system will use readings from snow sensor 1 instead of the missing readings from the faulty snow sensor.

Error 2 – Upper limit temperature sensor is not connected or short circuit

"SensErr 2" Will appear on display.

The system will continue to operate regardless of the upper limit temperature.

Required actions:

- 1. Refer to P03 section of the technician settings.
- 2. Check the temperature value and disable the sensor if needed.
- 3. Replace the sensor.

SensErr 2

Upper limit temperature Sensor error

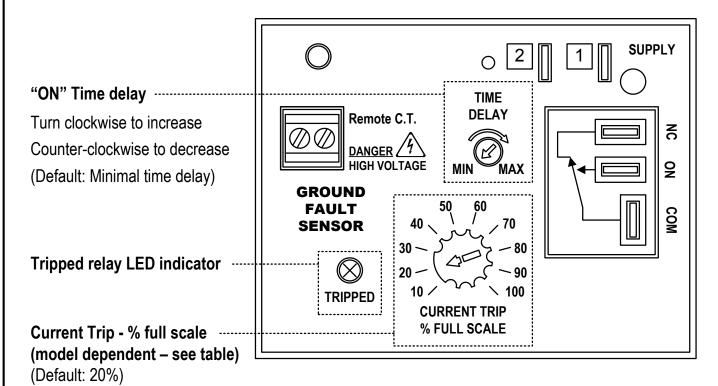
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Appendix 1

Calibrating and testing the internal GFCI

The GFCI (ground fault circuit interrupter) is designed to provide protection for electrical equipment. The "ON" Time Delay and Current Trip should be configured to match application requirements.



Indicator (%)	Current trip (Amps)			
indicator (%)	PYROBOX5	PYROBOX3/3C		
10	0.1	0.01		
20	0.2	0.02		
30	0.3	0.03		
40	0.4	0.04		
50	0.5	0.05		
60	0.6	0.06		
70	0.7	0.07		
80	0.8	0.08		
90	0.9	0.09		
100	1.0	0.10		

GFCI TEST

The GFCI should be tested monthly. Press the red GFCI TEST button located next to the R,C terminals inside the box for 3 seconds to trip the outlet and break the circuit. The RED internal LED on the GFCI and the RED external lamp on the box door should lit. Press the RESET GFCI button on the box door for 5 seconds to return to normal operation and reestablish power and protection.

PYROBOX3/3C/5

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Notes			

PYROBOX3/3C/5
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