

STELPRO

PYROBOX CONTROL PANEL FOR SNOW MELTING SYSTEM

QUICK REFERENCE GUIDE

PYROBOX3
PYROBOX3C
PYROBOX5

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.
- Move DIP switch S1 back to OFF position.

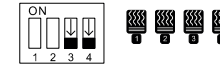
DIP SWITCH S2 – SHORT MEASURING TIMES (TEST ONLY)

- "ON" – Short measuring times – for test/commissioning only (measuring times will be divided by 60).
 - "OFF" – Normal operation.
- Short measuring times: One real hour will take one minute and one real minute will take one second.

DIP SWITCHES S3 AND S4 – HEATER SEQUENCING LOGIC

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

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



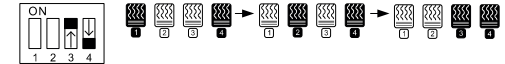
Outputs 1+3 and outputs 2+4 work together (by splitting time).

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



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

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



All 4 outputs work in sequence (by splitting time).

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



Note: If output 5 is set to work together with outputs 1-4, (see "Heater output no. 5 logic" in the technician settings), it will operate as does output 4.

ENABLE/DISABLE ZONES

- Turn unit OFF.
- While OFF, press both the [+] and [-] buttons for 10 sec. Press the [Select] button to select zone.
- Press the [+] and [-] buttons to enable/disable the selected zone. Black – Enabled zone. White – Disabled zone.
- Press the [+] and [-] buttons simultaneously for 5 seconds to exit.

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

**The time delay countdown will start when the snow detection signal from snow sensor switches from positive to negative. The staggering sequence will continue during the time-delay period.

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

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ENTER TECHNICIAN SETTINGS

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

P01 TEMPERATURE SETPOINT
Adjust 19...45°F / -7...+7°C
Def: 3°C/37°F

Adjust the temperature setpoint. Above this temperature, the outputs to the heaters will not be activated.

P02 LOW LIMIT TEMPERATURE
Adjust -4...+23°F / -20...+5°C
Def: -20°C/-4°F

Enable/Disable 1 – Enable / 0 – Disable

Adjust and enable/disable the low limit temperature. When temperature on snow sensor drops below the low temperature limit, the heating system will stop.

P03 UPPER LIMIT TEMPERATURE
Adjust +41...+125°F / +5...+52°C
Def: 52°C/125°F

Enable/Disable 1 – Enable / 0 – Disable

Display temperature on heaters

Adjust and enable/disable the upper limit temperature, and display temperature on heater sensor(s).*

P04 TIME DELAY
Adjust les heures 00...99 / Def: 00

Adjust minutes 00...59 / Def: 30

Adjust the time delay before stopping the heaters.**

P05 MANUAL ON
Adjust hours 00...99 / Def: 6

Adjust minutes 00...59 / Def: 00

Adjust the "Manual ON" mode time period. The time-delay parameter defines a timeframe in which the heaters remain ON after receiving a "Manual ON" command.

P06 SPLITTING TIME
Adjust minutes 10...1999 / Def: 24

Adjust the splitting time. The heater cycle / splitting time parameter defines the full cycle working time of all the heaters when working in sequence.

P07 SENSOR AND OUTPUT LOGIC
Select 0...3 / Def: 0

Define heater control by PYROSENSE or third party sensor.

0 – 1-5 by PYROSENSE. 4 and 5 operate together.
1 – 1-4 by PYROSENSE. 5 by third party.
2 – 1-5 by third party. Temperature display blank.
3 – Snow on any of the sensors will trigger all zones.

P08 SNOW SENSOR SENSITIVITY
Adjust 20...80% / Def: 50%

Adjust the snow sensor sensitivity value. (20% – less sensitive, 80% – more sensitive)

P88 SNOW SENSOR THRESHOLD
Adjust minutes 00...60 / Def: 1

Adjust the threshold. If the threshold is not reached, snow detection will not affect the logic of turning the heaters either ON or OFF. During countdown to threshold time, the snowflake icon will flash.

P09 NUMBER OF SNOW SENSORS
Select 1,2,3 or 4 / Def: 1

Select the number of PYROSENSE snow sensors connected.

P10 TEST MODE (COMMISSIONING)
Enable/Disable

Turn ON test conditions to check the functionality of the system regardless of sensor parameters. Use some water to wet the circuit on top of the snow sensor.***

SAVE CHANGES AND EXIT TECHNICIAN SETTINGS

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

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