PYROCON12

De-Ice controller

Technician Operation Presentation

2013



Introduction

Meitav-tec is introducing a new concept of De-Icing control – PYROCON12

Featuring:

- 24VAC controller and user interface panel "All in One"
- Fits into a 2x4 wall box
- Simple, Logical & accessible user Interface
- Sequencing between 5 zones allowing larger area coverage with limited power supply
- Easy and friendly technician access and operation
- Stylish Sensor and controller design
- Safe and reliable
- Energy saving algorithm
- UL certified







Snow Sensor + mounting Fixture

- 24VAC supply from controller
- Igloo shape design
- Conduit connection
- Adjustable rust proof arm (optional) up to
 20 inches length
- Anti birds nesting solution
- 30 feet cable (supplied)

PYROSENSE

Snow Sensor







Controller – PYROCON12

- 24VAC operated
- Inputs:
 - Meitav-tec Snow sensor (up to 4 sensors)
 - 3rd Party Snow sensor
 - Upper Limit Temperature sensor
- Outputs:
 - 4 Zones On/Off heaters control
 - 1 Gutter **On/Off** heater control
- LCD backlit display with operation indications
- User Friendly Technician Settings parameters







UL Temperature input

- Isolated sensor
- Stops the operation when the heated surface
 reach a intended (Technician adjustable) temperature value
- Semi Rigid can be pushed into conduit
- 10 meters (30 feet) cable length
- Installed in the surface plenum
- Temperature can be viewed by PYROCON12



Power Box (optional)

Single Door Wall mount Enclosure

<u>Dimensions</u>: Industrial box: (20.6H X 20.6W X 9.1D)

(Inches) Residential box: (12.8H X 15.5W X 7D)

- Up to 600 VAC. 4x50 AMP 3 phases
- GFCI Ground Fault Circuit Interrupter built-in
- Modular configuration
 - Allows installation of 1, 2, 3 or 4 zones + Gutter output
 - DIN Rail assembly for the terminals
- Output indication
- Industrial box classic design
- IP66, NEMA 4 (before drilling for the LEDs and controller)







[ON]

Switch the system *On/Off*

[SELECT]

Switch the system between *Auto mode* and *Manual On*

[+] & [-]

Switch the display between Fahrenheit and Celsius display

(while in *OFF* – enable/disable zones)





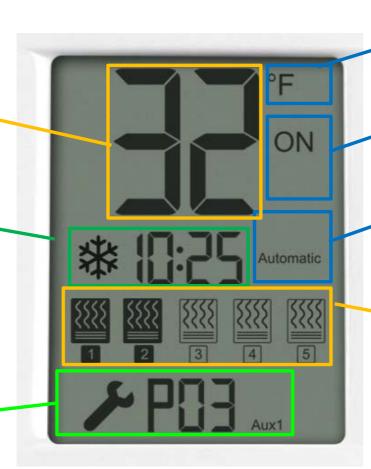
Temperature display scale

ON/OFF indication

Ambient & Set-Point Temperature indication

Snow detection icon and digital timer indication

Technician section



Active zones indication

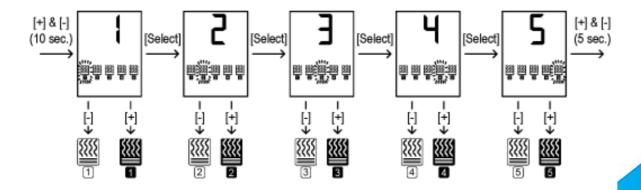


Enable/Disable zones

Follow the steps below to enable or disable each of the 5 zones.

By default, all zones are enabled.

- Turn the thermostat OFF.
- Press and hold both the [+] and the [-] buttons simultaneously for 10 seconds.
- Choose the required zone using the [Select] button. Selected zone number will appear on display and the heater icon will flash.
- 4. Use the [+] button to enable the selected zone (black heater icon).
- 5. Use the [-] button to disable the selected zone (white heater icon).
- Repeat steps above 3 to 5 for any required zone.
- Press and hold both the [+] and the [-] buttons simultaneously again for 5 seconds to return to normal display.





Black icon - Zone enabled



White icon - Zone disabled



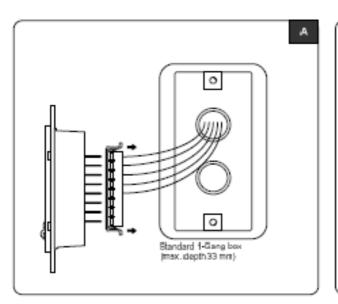


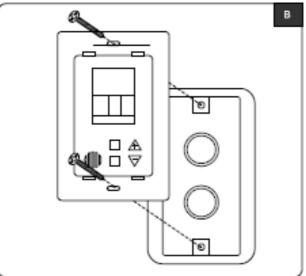
Wall mounted Installation:

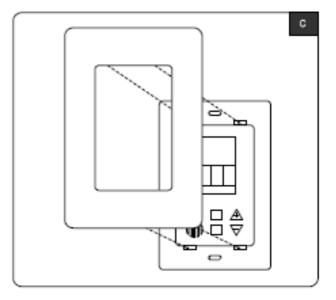
The unit MUST be fitted into a standard electrical box (Carlon – B114R or similar)

Installation procedure:

- A. Connect the wires as shown in the enclosed wiring diagram. All terminals accept 1x0.5 mm²/24 AWG.
- B. Place the thermostat in the electrical box and tighten up the 2 screws.
- C. Adapt the front frame-panel into its place, by pushing it towards the wall.











There are 4 **DIP Switches** for the technician use in the back of the PYROCON12

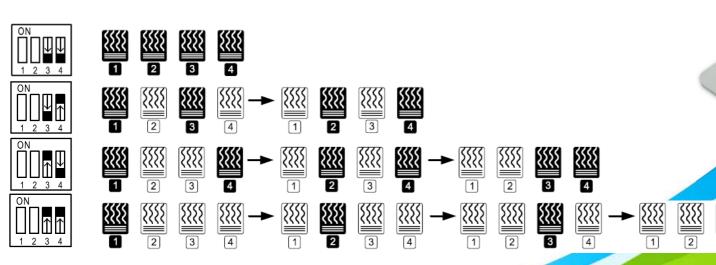
DIP switch S1 – Switch the system to Technician mode

DIP switch S2 – Short time configuration. 1 Min = 1 Sec.

for settings and field test procedures

(A) meitav-tec

DIP switch S3 + S4 – Set the zones sequencing logic





DIP switch S1 – Switch the system to Technician mode

- A Wrench icon
 and "P⊞" will be displayed on LCD
- Press [SELECT] and [+] or [-] (simultaneously) to move forward and backwards between the parameters

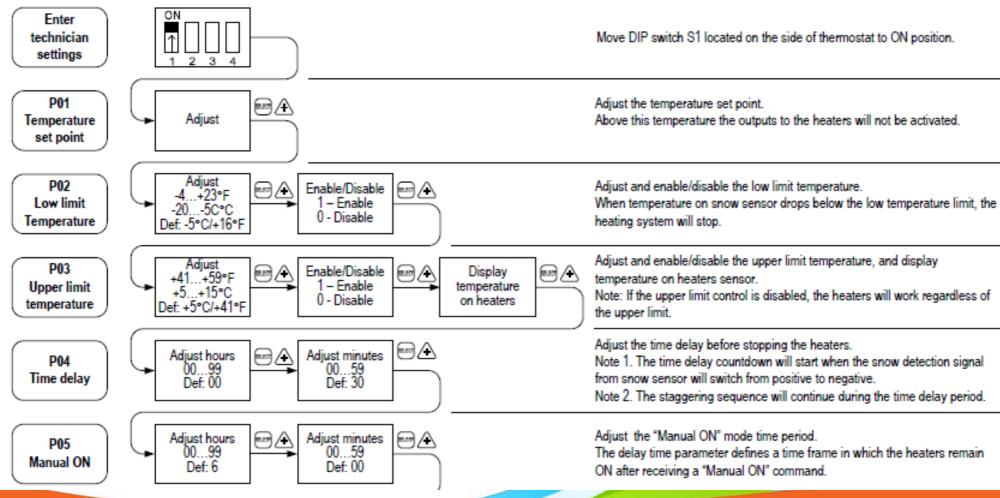
Parameters list:

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



Parameters details 1

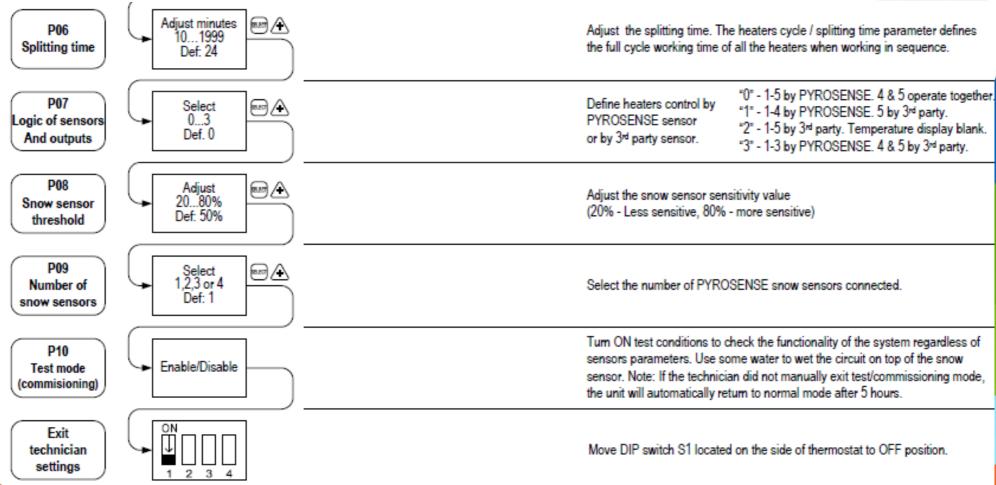






Parameters details 2







LCD Display

