PYROCON12

De-Ice controller

User Operation Presentation

2013

meitav-tec

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

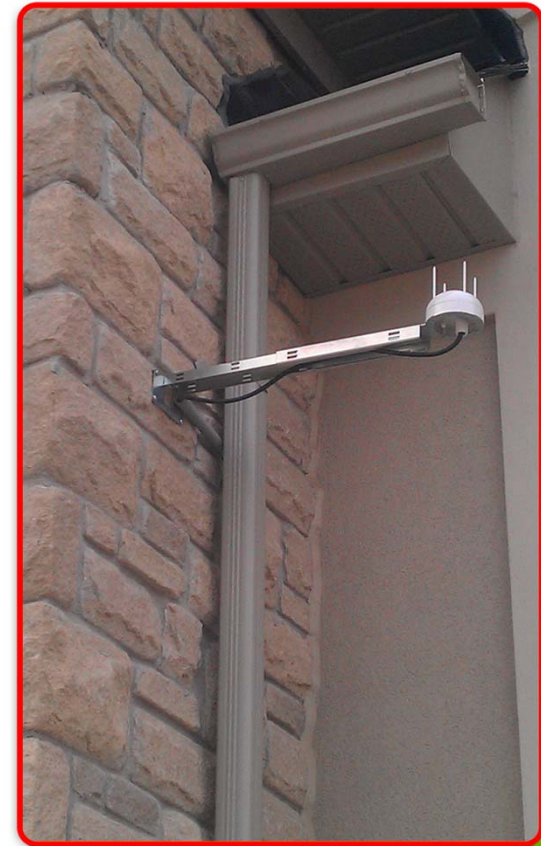- Energy saving algorithm

- UL certified

meitav-tec
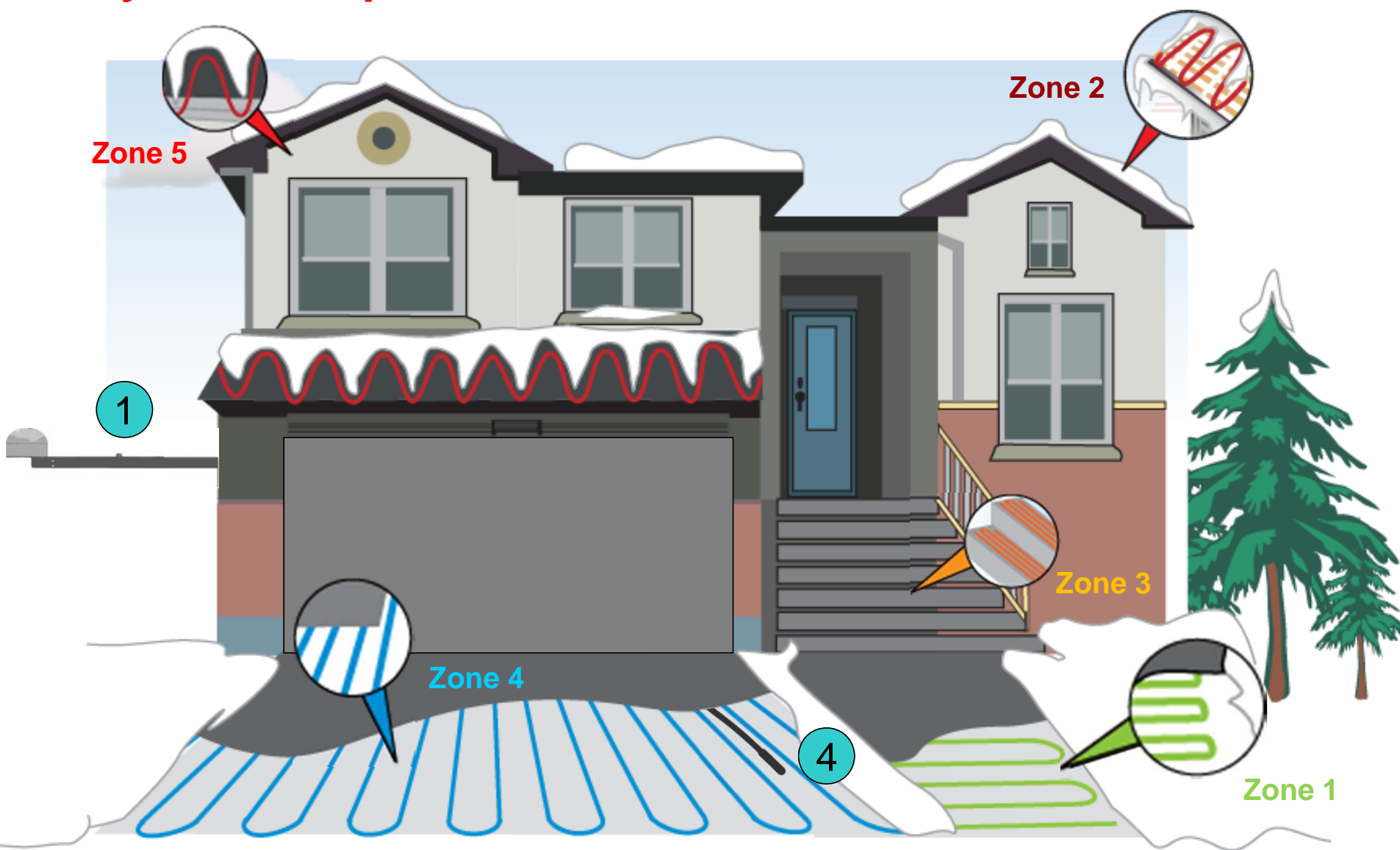
System components

System components

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

meitav-tec

System components

Controller

- 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

System components

Controller

Features

- Sequencing / Staggering 4 zones
    - 1/2/3/4 or 1/2/3 or 1+3/2+4
    - Adjustable Cycle time between zones
- Outputs status real time indication
- Disabling zones
- De-Icing Temperature Set-Point
- Upper Limit Temperature Set-Point - Adjustable
- Off Delay Time - Adjustable
- Selectable operation modes – Off/On/ Automatic
- Override operation – activates the system once for a configurable period of time
- Alarms and Sensors Errors indications

meitav-tec

System components

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

meitav-tec

System components

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

PYROCON12 operation
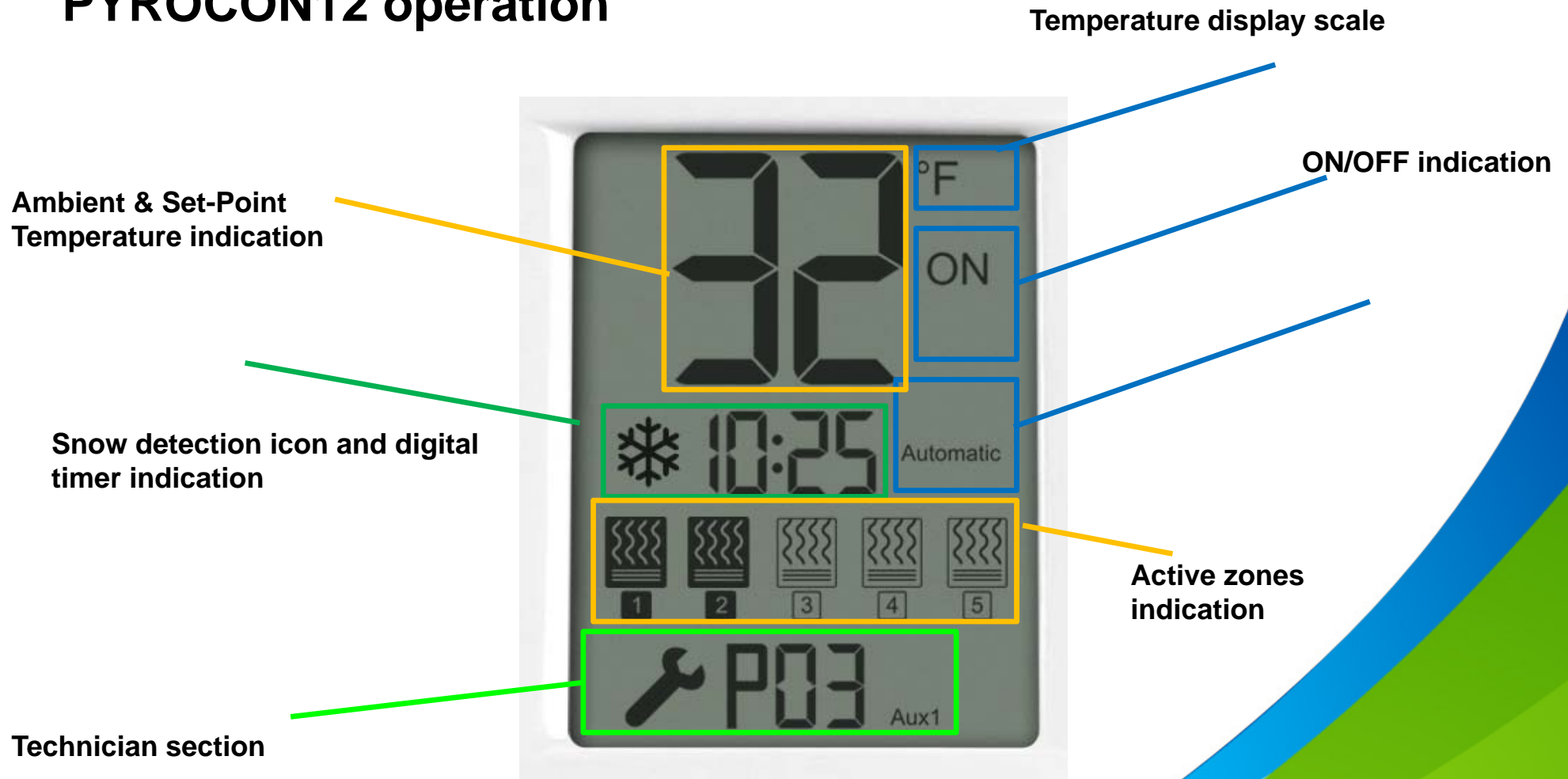
[ON]

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)

PYROCON12 operation

Temperature display scale

ON/OFF indication

Ambient & Set-Point Temperature indication

°F

ON

Automatic

Snow detection icon and digital timer indication

❄ 10:25

Active zones indication

1 2 3 4 5

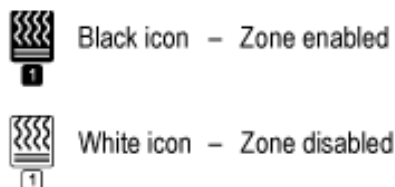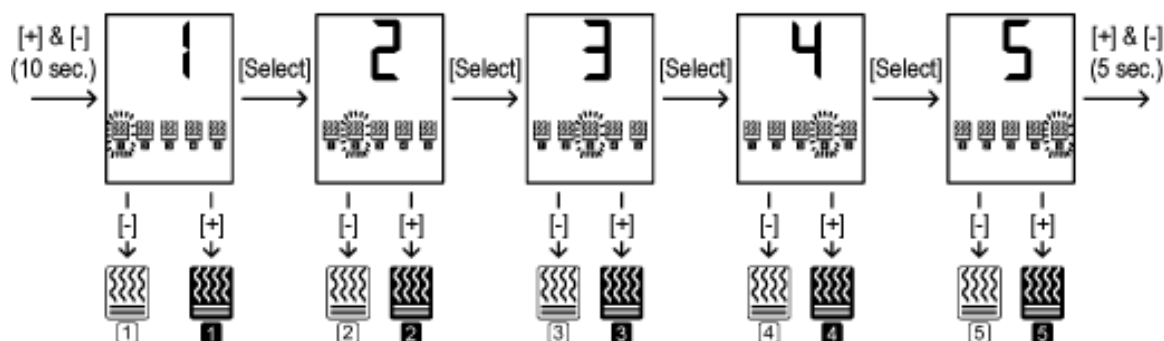**Technician section**

🔧 P03   Aux1

meitav-tec

PYROCON12 operation

Enable/Disable zones

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

By default, all zones are enabled.

1. Turn the thermostat OFF.
2. Press and hold both the [+] and the [-] buttons simultaneously for 10 seconds.
3. 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).
6. Repeat steps above 3 to 5 for any required zone.
7. 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

meitav-tec

PYROCON12 Technician Settings

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

Using these switches, the technician determine the following:

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

The staggering sequence is also defined by the switches

meitav-tec

LCD Display

meitav-tec