PYROCON19 | Snow Melt Control

Features & Benefits

- The PYROCON19 offers a smart and easy control of the PYRO Snow & Ice Melting system
- Automatic controlling device for snow/ice melting and frost protection
- Energy Efficient algorithm
- Connectivity to B.M.S. and Smart-Home Systems via BACNET and MODBUS
- Master & Slave – allows connections of several units to one master controller
- Up to 5 zones activation
- Large backlit LCD display with indication of the active zones
- Sequencing option between the zones – Allowing larger snow melting area with less available power @ site
- Clear indication on the LCD for the active zones and when the GFEP is triggered
- User friendly interface
- Multiple snow sensors input – optional
- Adjustable Setpoints, Upper and Lower Limit Temperatures, Hold-On-OFF Delay and Manual On
- Adjustable splitting time between the zones with multi configurations between zones
- Technician tesing / commissioning mode for easy and fast system test all year long (even during summer or at high outdoors temperatures)

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Description

The PYROCON19 is a stylish, user friendly and efficient controller for Ice and snow melting applications.

When receiving a signal from the snow sensor/s, it activates up to 5 electrical heating elements. Based on the DIP switches configuration, the 5 zones are activated either continuously or with customized sequencing between the zones.

The adjustable Hold-On timer keeps the outputs to the zones active to ensure complete snow melting.

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

The outdoor temperature set-point as well as Slab Upper limit temperature and ambient lower limit temperature can be easily set by a push of a button.

The Technician Settings mode allows installer or technician to adjust all the parameters for each installation.

Commissioning mode sets the system in operation condition and simulates low temperatures, allowing testing of the system also during summer time.

The parameters that can be modified are as follow:

- Temperature set point
- Lower ambient temperature limit to stop heaters
- Upper slab temperature limit to stop heaters
- Time delay (Hold-on) before stopping the heaters
- ON time for Manual mode
- Heaters cycle time / Splitting time between zones
- Number of zones and sequence of operation (Sensors and heaters control logic)
- Snow sensor RH sensitivity
- Number of snow sensors connected
- Selection between BACNET MSTP or MODBUS RTU for the B.M.S./Smart-Home interface

DIP Switches located on the back of the PYROCON19 provides easy access to technician mode and to the system configuration settings.

The 5th output can be used as a stand-alone ice melting zone or be activated simultaneously with zone #4.

Zone #5 offers a simple option for gutter, roof ice-melting or other critical aereas.

The PYROCON19 allows snow sensor input both from the PYROSENSE sensors and also from a 3rd party snow sensors.

3 terminals in the PYROCON19 are available to connect a CIT-1™, GIT-1™ or SIT-6E™ sensors or any other 24V sensors/inputs and use them to control some or all of the zones.

The PYROCON19 fits into a 2x4 flush mounted wall box. Installing the thermostat is a quick and easy.

Quick connector terminals are located on the back, for an easy hook up Connect the PYROCON19 to one of the PYROBOX power distribution boxes with integrated Ground Fault Sensor, add a snow sensor (PYROSENSE) and the system will be ready.

The PYROCON19 is a "pin to pin" replacement to the PYROCON12.

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Improvements and upgrades of the PYROCON19 over the PYROCON12

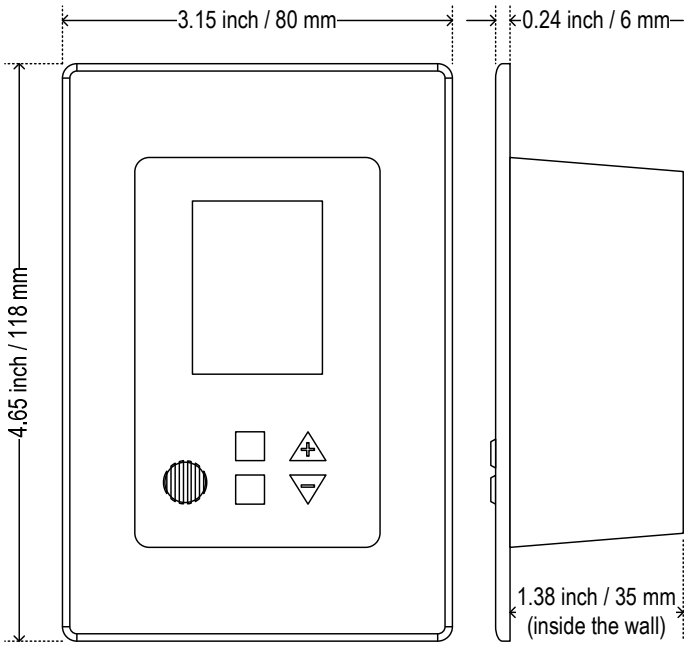
- Full connectivity to SMART-HOME and B.M.S. using BACNET and MODBUS protocols communication
- Connections to additional snow sensors such as ground, gutter and aerial sensors, separately or together
- Master & Slave function – defining one PYROCON19 as a master while the slaves mimic the operation without the need of additional snow sensors
- Critical zones settings. Once staggering scenario is active, critical zones will stay on as long as snow keeps falling. Staggering of non-critical zones will continue after snow stopped.
- Offset for calibration of measures temperature
- GFEP tripping indication on the LCD while the outputs are switched off due to current leakage
- Additional input for external outdoor temperature – to be used when a pavement sensor is the only sensor connected to the PYROCON19
- Multiple sensors connection methodology
- Full list of all the system parameters is available via the BACNET and MODBUS object lists
- Connectivity to WiFi using the PYRO-WIFI module.

Technical specifications

Approvals	UL 873 XAPX2.E362312
Enclosure	IP20, Indoor Mounting
Protection	ABS/PC
Material	Flush mount
Mounting	Fitts into standard electrical box (Carlon – B114R or similar)
Terminal blocks	1.5 mm^2 ,14 AWG (max)
Supply	24VAC±20%,50-60Hz,3W
Outputs	5 outputs 24VAC, 1A (max) each
Inputs	#1 Snow sensor CIT–1 series #2 up to four *PYROSENSE* Snow sensors (by meitav-tec) #3 *PYROULSS* Upper Limit Sensor NTC 10K (by meitav-tec)

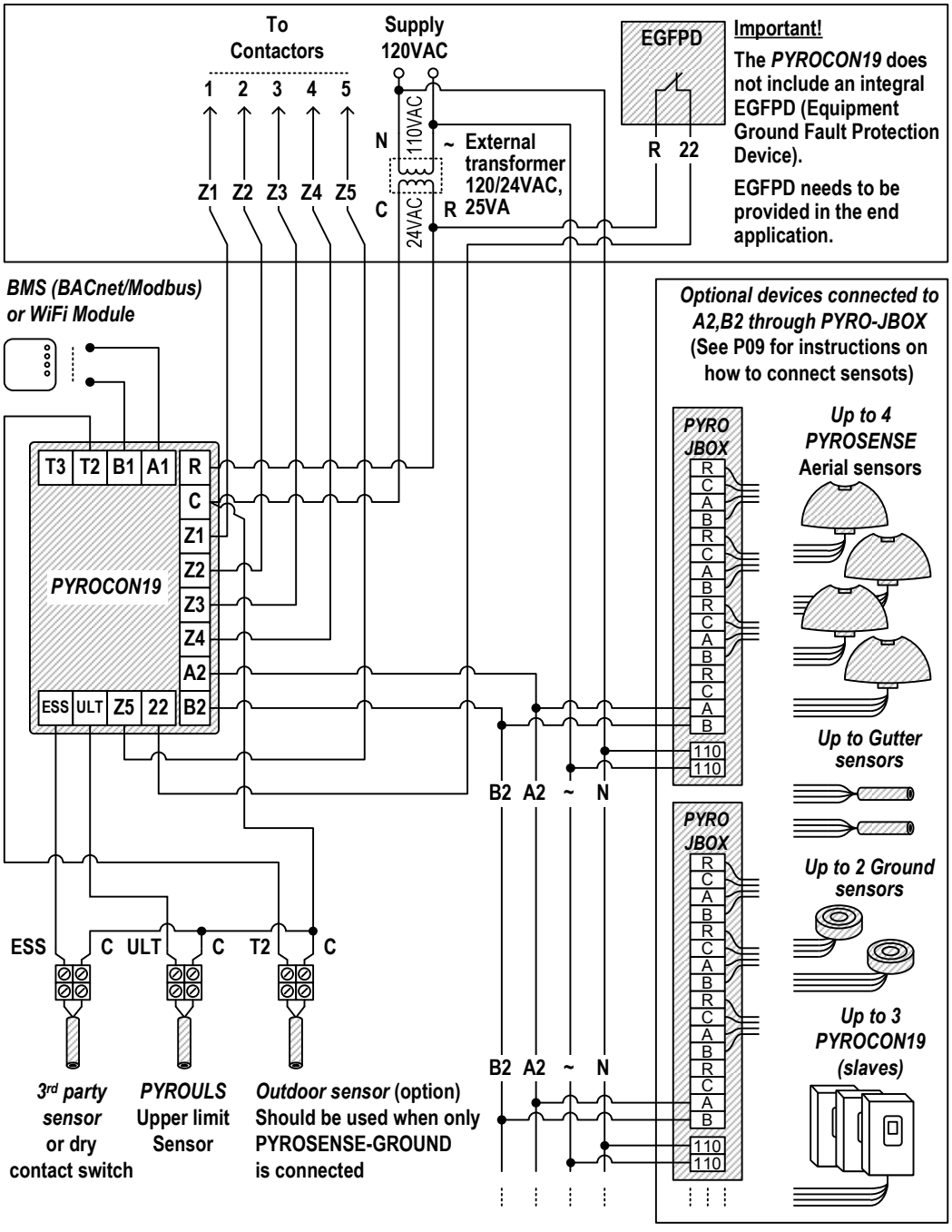
Operating temp.	–10°F to 122°F (-10° C to 50°C)
Storage temp.	–40°F to 176°F (–40°C to 80°C)

Dimensions



For further information, operating & installation manual, please refer to our website at www.meitavtec.com

Wiring diagram



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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