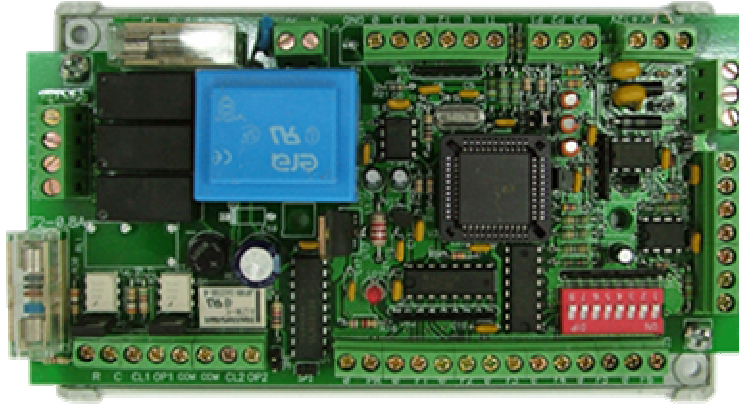




PS 2500-PM-3S-FC-Super-Native BACnet



**Main Controller All-IN-ONE™
Fan-Coils with proportional outputs
(3-wire) for Cool and Heat valves,
with Native BACnet Protocol**

General

The PS 2500-PM-3S-FC-SUPER is a main controller for Fan coils applications with BACnet Protocol.

The PS 2500-PM-3S-FC-SUPER has most of the applications built-in, field selectable.

This flexibility gives the customers the advantage of having one main controller for most of Fan coils applications.

The PS 2500-PM-3S-FC-SUPER has a modular and modern design for the high requirements of the market today.

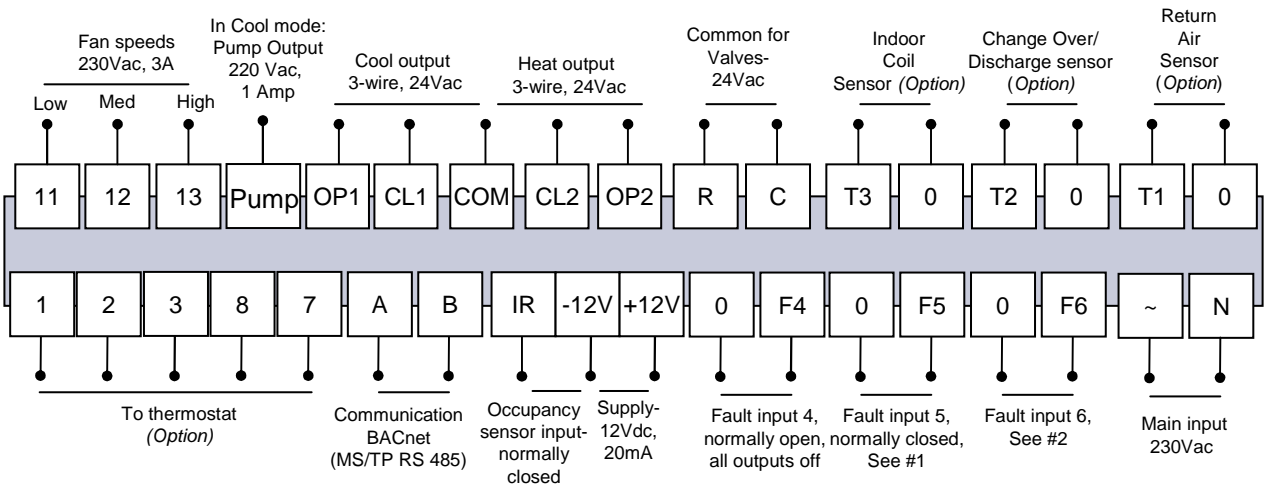
The PS 2500-PM-3S-FC-SUPER is factory pre-program to save valued time on field programming.

Features

- All-In-One system for Fan Coil applications
- Main Input- 220Vac
- Applications with jumper selection:
 - 2-pipe systems
 - 4-pipe systems
 - no valves system
- Proportional outputs (3-wire) for Cool and Heat valves- 24Vac with external transformer (open/close time adjustable through protocol)
- Auto-change over sensor (Mode is set based on temperature of the incoming water flow, ideal for 2-pipe systems)
- Discharge sensor- option (2-pipe systems)
- 3 Speeds output- 220Vac, 3Amp each- with Auto Speed function
- Indoor coil sensor for Heat (soft-start)
- Surface and flush mount thermostats- option
- Fault input dry contact, voltage-free, for occupancy sensor, window contact or fault input
- Occupancy sensor- option with 12Vdc supply



Electrical Diagram



#1-F5- Selection for thermostat; Shorted= with Fan Only mode
Open = without Fan Only mode (only Cool-Heat-Cool/Heat)

#2-F6- Contact input- without logic into thermostat, with indication through the protocol only.

Dimensions

| | |
|--------|--------|
| Length | 157 mm |
| Width | 90 mm |
| Height | 40 mm |

Specifications

| | |
|-------------------|----------|
| Temperature Range | 10-30°C |
| Weight | 0.340 Kg |
| Scale | °C |
| Accuracy | ±1°C |
| Flammability | UL94V-0 |

Accessories

| Part Number | Description |
|-------------|--|
| FMH 2500 | FMH - 2500 – Flush Mount panel- Horizontal |
| ETN 2500 | ETN - 2500 – Surface Mount panel |
| FMT 2500 | FMH - 2500 – Flush Mount panel- Vertical |
| IRP 2500 | Receiver panel for remote control |
| RT03 | IR remote control |
| TS01 | Temperature Sensor - 80 cm Cable |
| RS01 | Temperature Sensor into decorative box |
| RS02 | Average Temperature Sensor into decorative box |
| RS03 | Room Temperature Sensor ±3°C |
| WP4 | Decorative back plate for ETN panel |

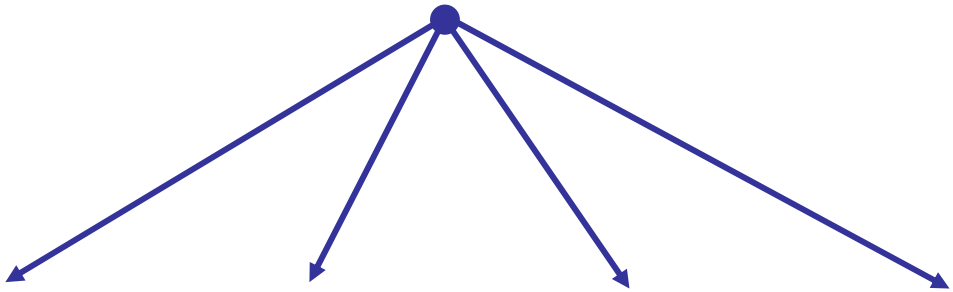


Configurations



Main Board

PS2500 - Main Controller
All-IN-ONE™ for Fan-Coils applications
with Native BACnet Protocol



Control Panels / Accessories

OR



ETN-X500 – Wall mount thermostat with built in temperature sensor* and LCD display.

OR



FMH-X500 – Flush mount thermostat with built in temperature sensor* and LCD display.

OR



IRP-X500 - Receiver Panel with built in temperature sensor* + IR Remote Control unit.

OR



TS01 – Return air sensor ONLY-connected to main board. NO wall panel needed.

*The temperature may be sensed either through the wall panel's built in temperature sensor **OR** through the return air sensor connected to the main board (DIP Switch selectable).



Sample Object List

IMPORTANT: The following Object List is for example purposes ONLY and will vary according to each specific project.

| N | Object | Description | Value | Default | Remarks |
|----|------------------|--|----------------|---------|---|
| 1 | Analog Input #0 | T1- Return air sensor | 7°C...32°C | | - |
| 2 | Analog Input #1 | T2- Discharge sensor | -65°C...150°C | | - |
| 3 | Analog Input #2 | T3- Indoor coil sensor | -65°C...200°C | | - |
| 4 | Analog Input #3 | Cool / Heat value | 0%...100% | | Indication |
| 5 | Analog Value #0 | Set Point | 10°C...30°C | | - |
| 6 | Analog Value #1 | 0= Fan Only, 1= Cool, 2= Heat, 3= Auto Change | Mode | Cool | Auto Change- ONLY for 4-pipe systems Fan Only- selectable option (shorting terminals F5,0) |
| 7 | Analog Value #2 | 0= Auto Speed, 1= Low, 2= Med, 3=High | Fan | Low | - |
| 8 | Analog Value #3 | Dead zone Cool | 0.5°C...5.0°C | 1.0°C | Only for Auto Change |
| 9 | Analog Value #4 | Dead zone Heat | 0.5°C...5.0°C | 1.0°C | Only for Auto Change |
| 10 | Analog Value #5 | Offset T1 ambient | -6.0°C...6.0°C | 0.0°C | For display on thermostat |
| 11 | Analog Value #6 | Differential (for Cool, Heat) | 2.0°C...10.0°C | 2.0°C | - |
| 12 | Analog Value #7 | Set Point Limit Low | 10°C...30°C | 10°C | Does not limit display |
| 13 | Analog Value #8 | Set Point Limit High | 10°C...30°C | 30°C | Does not limit display |
| 14 | Binary Output #0 | Thermostat On / Off | Off/On | | - |
| 15 | Binary Input #0 | Cooling | Off/On | | Indication |
| 16 | Binary Input #1 | Heating | Off/On | | Indication |
| 17 | Binary Input #2 | Fan: Speed Low | Off/On | | Indication |
| 18 | Binary Input #3 | Fan: Speed Medium | Off/On | | Indication |
| 19 | Binary Input #4 | Fan: Speed High | Off/On | | Indication |
| 20 | Binary Input #5 | Fault Input- F4 (all units OFF) | Off/On | | Indication |
| 21 | Binary Input #6 | IR Input- 12/IR | Off/On | | Indication |
| 22 | Binary Input #7 | Fault Input- F6 (indication only in protocol) | Off/On | | Indication |