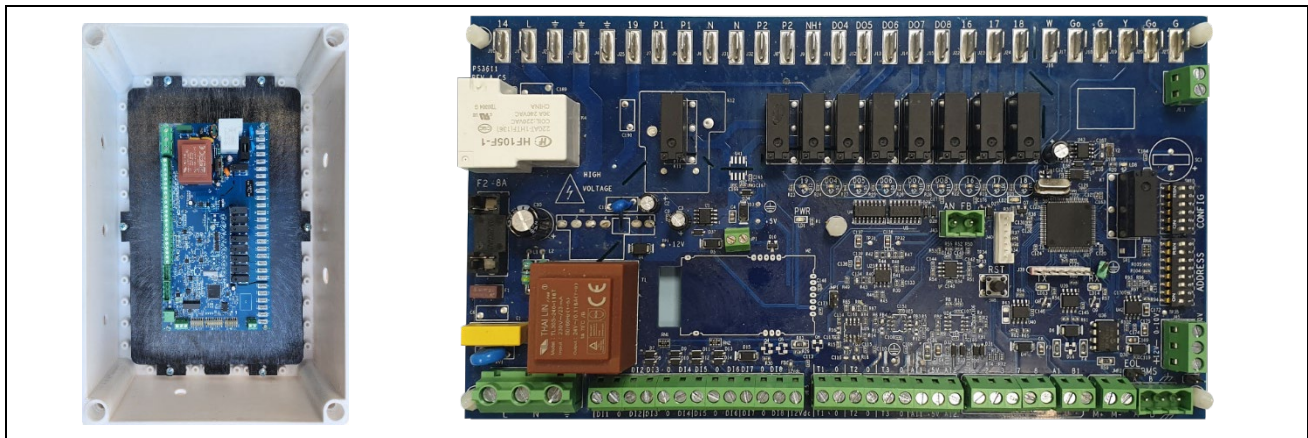




Description

The CTU/ARM/SUPER/1 is a DDC controller for various HVAC configurations, with BACnet MS/TP and MODBUS RTU interface to B.M.S./Smart-Home.

Compatible with various room modules interface and optional Remote Control.

Available outputs:

- 9 Digital outputs
- 3 proportional outputs 0-10VDC

Available inputs:

- 8 Digital inputs
- 4 Analog Inputs 0-10V

Main input – 230VAC

- | | |
|---|---|
| <ul style="list-style-type: none"> • 3 Speeds output- 230VAC, 3A each - with Auto Speed function • Heater output – 5A • Fan Only - selectable • Occupancy Sensor (12VDC supply) – adjustable 0...3600 sec . • Fan On/Auto-Fan in Cool or Heat • Condensing Pump output -230VAC, 1A • Wall & flush mount panels, or IR panel – option | <ul style="list-style-type: none"> • F/C applications, dip switch selectable: 2-pipe system 4-pipe system • Proportional outputs (0-10V or 2-10V) for Cool & Heat valves . • T1 sensor – Return Air Sensor • T2 sensor - Auto-change over sensor • T3 sensor - Indoor coil sensor for Heat (soft-start) • Fault (1) input, dry contact, Normally Closed, when open all outputs turn off • Fault (2) input dry contact, for Occ. Sensor |
|---|---|

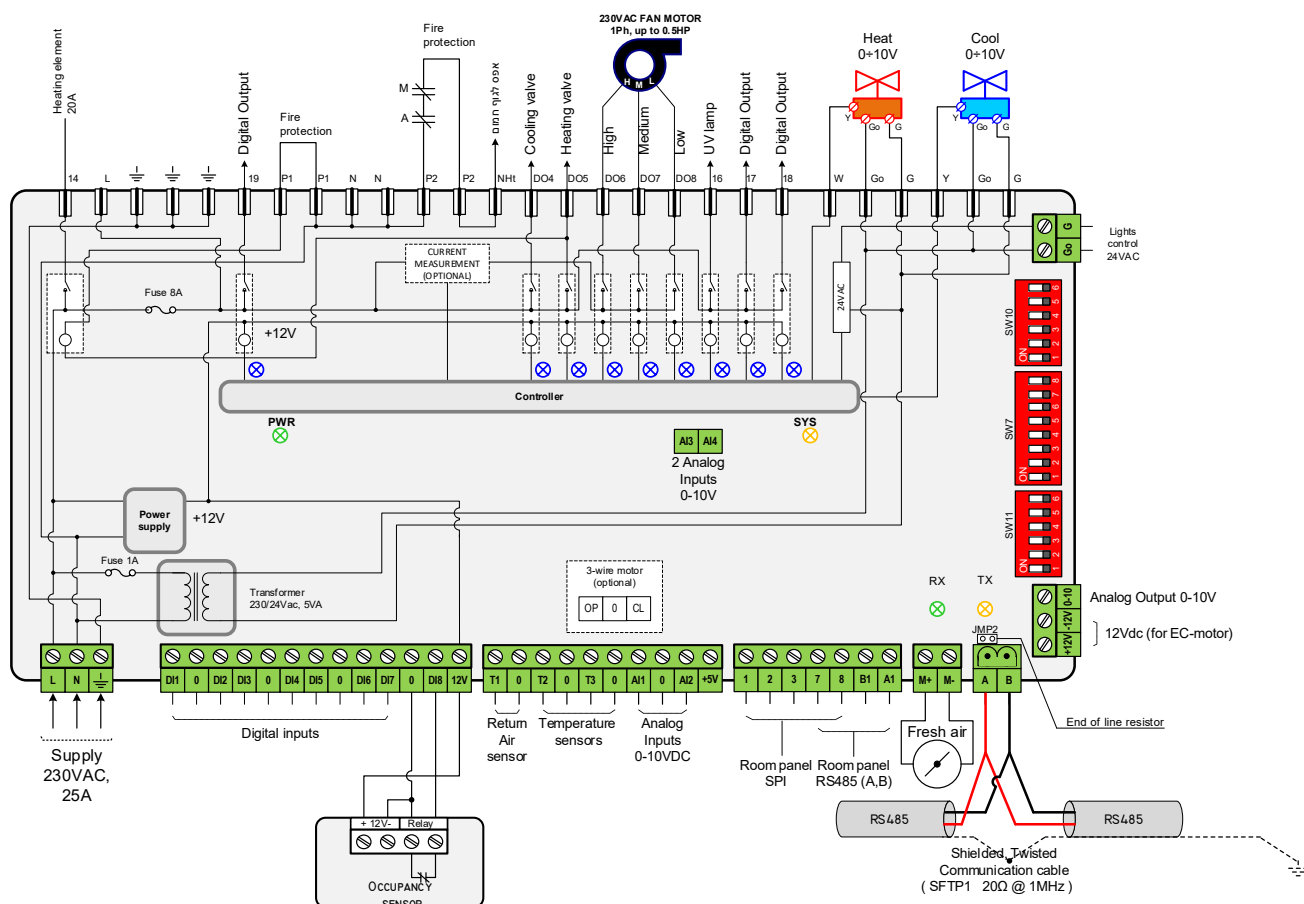
Mode of operation is designed per customer's request.



Features & Benefits

- Suitable for most HVAC systems
- Supports BACnet and MODBUS protocols
- Easy configuration with DIP Switches
- Full access to all the controller parameters from the B.M.S. menu and the user interface panel
- 3 Temperature readings inputs from an External sensors
- I/O list:
 - 6 D/O - Maximum 3A each, 8A total
 - 3 A/O - 0-10V
 - 8 D/I
 - 4 A/I
 - 3 Temperature sensors inputs
 - RS485 terminals (A/B)
- Panel/user interface terminals
 - SPI - X500 Series
 - RS485 – C500 Series
- **BTL certified** for revision 28
- °F/°C scale
- Occupancy sensor input + 12VDC power supply to the sensor, for energy saving
- Economy Mode
- Freeze Protection algorithm built-in– adjustable temperatures
- Auto Fan (fan on demand)
- Compressor protection delay timer
- H/P and H/C heating configurations
- Master/Slave between controllers

Wiring diagrams



Optional panels – user interface modules



MTS/C500
MTS/X500



GAB/C500
GAB/X500



GABV/C500
GABV/X500



MTSV/C500
MTSV/X500



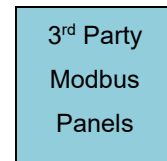
IRP/C500 + RT03
IRP/X500 + RT03



TAT/C500
TAT/X500



ALT/C500
ALT/X500



3rd Party devices

Technical specifications

Operating voltage	230VAC	Storage temperature	-10°C÷60°C / 14°F÷140°F
Temperature readings scale	5°C÷35°C/41°F÷95°F	Storage/operating humidity	80%RH
Temperature sensor type	NTC 50K@25°C/77°F	Plastic type (Base – option)	PC/ABS
Operating temperature	0°C÷50°C / 32°F÷122°F	Flammability (Housing – option)	UL94V-0
Board dimensions	232 x 128 mm		

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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