

## CTU – a Tailor Made HVAC, BMS Controller ready to be designed according to your application needs!

The **CTU** is a smart, highly versatile controller, Meitav-tec has especially developed to meet the need for a controller, readily implemented for customer's unique HVAC application.

This high performance controller offers valuable versatility capabilities as all inputs and outputs are pre-programmed at factory according to client's specific criteria. This adaptability is an ideal solution for OEM's who require tailor made controller configured according to their particular requirements at a short delivery time and at an affordable price.

The **CTU** controller offers advanced communication protocol capabilities, such as Modbus or BACNet for B.M.S control and selectable power supplies 230VAC, 110VAC or 24VAC.



### The CTU offers a host of benefits:

- "Plug & Play" controller - no at site configuration tools needed
- Applicable for B.M.S
- DIN rail compatible
- Versatile configuration ensures customers pay only for required features
- Perfect for OEM's who need high performance, reliable controller as well as a short time delivery

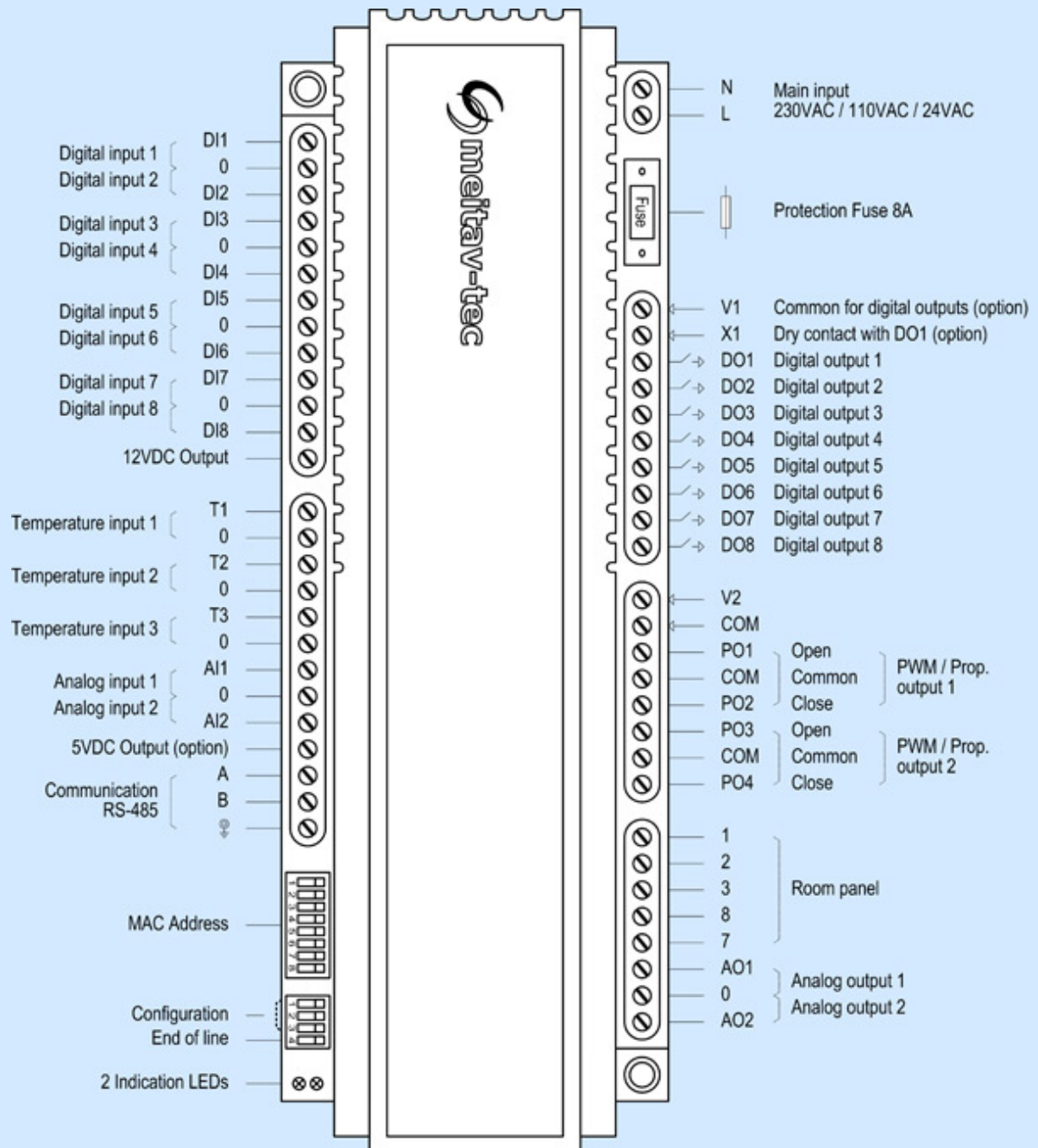
Following is a list of **input & output options**, configurable as per desired application. Any combination of these inputs/outputs, with the added value of Meitav-tec's logic, can be the solution for your next project:

Outputs:	Inputs:	Others:	Additional features included:
<ul style="list-style-type: none"> <li>• 8 Digital Outputs (220VAC, 110VAC or 24VAC – depending on the supply voltage)</li> <li>• 2 Analog Outputs (0-10VDC)</li> <li>• 2 Open-Common-Close Outputs (24VAC)</li> <li>• 12VDC power supply</li> <li>• 5VDC power supply</li> </ul>	<ul style="list-style-type: none"> <li>• 8 Digital Inputs</li> <li>• 2 Analog inputs (0-10VDC)</li> <li>• 3 Temperature Sensor inputs 50K (can be used as A/I)</li> </ul>	<ul style="list-style-type: none"> <li>• Power supply: 230VAC, 110VAC or 24VAC</li> <li>• RS-485 Communication port</li> <li>• Panel interface to various designs</li> </ul>	<ul style="list-style-type: none"> <li>• 2 LEDs for indication</li> <li>• MAC address 1-255 by DIP switch</li> <li>• 4 DIP switches for configuration purposes</li> <li>• DIN rail connection</li> <li>• PS/ABS plastic cover</li> <li>• CE certified</li> </ul>

The CTU has been successfully configured to numerous, various products.  
 Click to learn more about some of the CTU products:

- [Air Handling Unit \(AHU\) Controller](#) – designed to condition air as part of an AHU system. The controller is communicating with the B.M.S by MODBUS RTU protocol and is locally operated by especially designed panel display.
- [CTU2500-P-3S-FC-SUPER - Fan Coil, Proportional Controller with Bacnet protocol for B.M.S](#) – Main Controller for Fan Coil, B.M.S. applications, with RS-485 interface to Bacnet protocol and proportional (0-10V) outputs for the Fan-Coil valves. Locally operated by ETN-X500 or FMH-X500 panel.
- [CTU1601- Input/Output card for Meitav-tec's MaxiNet system](#) – Input/Output card for Meitav-tec's [Maxinet](#) system.
- [CTU-4500-PM2-3S-FC-SUPER - Fan Coil, Proportional Controller with Modbus protocol for B.M.S](#) – Controller for Fan Coil, B.M.S. applications, with RS-485 interface to Modbus protocol and proportional, pulse modulate outputs for Cool & Heat valves. Locally operated by a wall / flush mount panel.

----- CTU Wiring Diagram -----



----- Panel/Interface Options -----



ETN-X500



FMH-X500



FMT-X500



IRP-X500



LCD