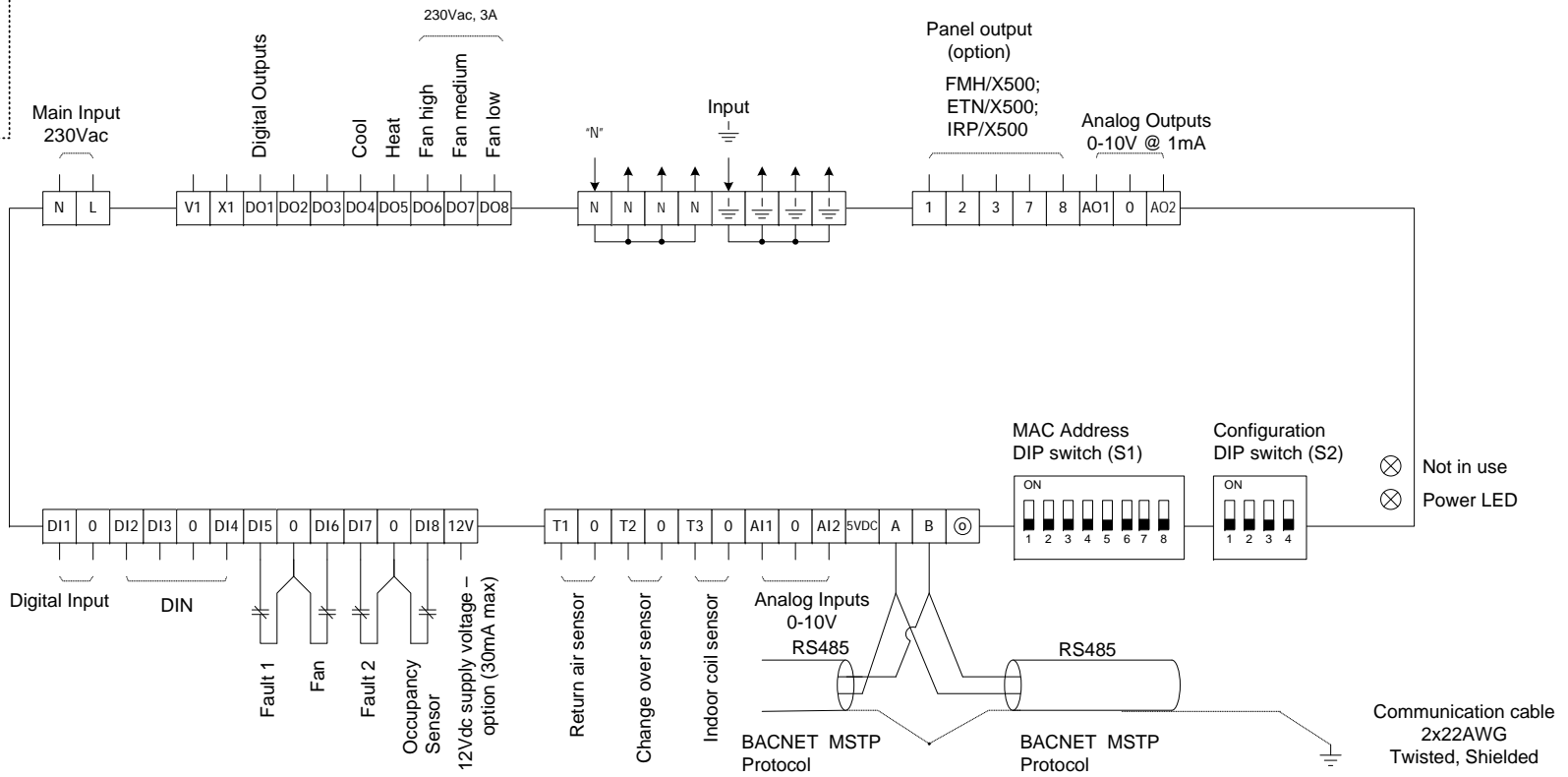**Important !**
Disconnect power to the main board before making any changes to DIP switches/ Jumpers, wiring the unit and/or connecting the wall panel.

Main Input 230Vac

Digital Outputs

230Vac, 3A

Cool
Heat
Fan high
Fan medium
Fan low

"N"

Input

Panel output (option)

FMH/X500;
ETN/X500;
IRP/X500

Analog Outputs 0-10V @ 1mA

| N | L | | V1 | X1 | DO1 | DO2 | DO3 | DO4 | DO5 | DO6 | DO7 | DO8 | | N | N | N | N | | | | | | 1 | 2 | 3 | 7 | 8 | AO1 | 0 | AO2 |

Digital Inputs

1. **DI1,0** – **Digital Input**
Normally open (N.O.)Active when close.
Only for indication through communication.

2.**DI2,0 DI3,0 DI4,0 -**
Device Instance Number (DIN)

DI2	DI3	DI4	DIN
Open	Open	Open	EEPROM
Short	Open	Open	DIN=MAC+1200
Open	Short	Open	DIN=MAC+1000
Short	Short	Open	DIN=MAC+800
Open	Open	Short	DIN=MAC+600
Short	Open	Short	DIN=MAC+400
Open	Short	Short	DIN=MAC+200
Short	Short	Short	DIN=MAC

MAC Address (DIP switch S1)

MAC Address DIP switch (S1)

Configuration DIP switch (S2)

ON
1 2 3 4 5 6 7 8

ON
1 2 3 4

⊗ Not in use
⊗ Power LED

| DI1 | 0 | DI2 | DI3 | 0 | DI4 | DI5 | 0 | DI6 | DI7 | 0 | DI8 | 12V | | T1 | 0 | T2 | 0 | T3 | 0 | AI1 | 0 | AI2 | 5VDC | A | B | ⊙ |

Digital Input

DIN

Fault 1
Fan
Fault 2
Occupancy Sensor
12Vdc supply voltage – option (30mA max)

Return air sensor
Change over sensor
Indoor coil sensor

Analog Inputs 0-10V

RS485

RS485

BACNET MSTP Protocol

BACNET MSTP Protocol

Communication cable 2x22AWG Twisted, Shielded

3. **DI5,0** - **Fault 1** input Normally close(N.C.)
When open – all outputs OFF (no delay)

4. **DI6,0** - **FAN** – Short – Fan Only mode available (Selectable through controller)
Open – Fan Only mode not available

5. **DI7,0** - **Fault 2** input (N.C.)
Only for indication through communication.

6. **DI8,0** - **Occupancy Sensor**
One of 3 modes (set by communication):
1 Auto: When the DI8 input (N.C) is open for 10 minutes, all outputs turn Off.(Default)
2 Start/Stop
3 Occupied/Non occupied (Economy mode)

DIP switch Configuration (S2)

S2.1 – Fan ON / Auto fan configuration in cool/heat
ON   -   Auto fan in Cool
OFF   -   Fan ON (always) in Cool

S2.2 – 2-pipe / 4-pipe system
ON   -   4-pipe
OFF   -   2-pipe

S2.3 –   ON   -   Auto fan in Heat
OFF   -   Fan ON (always) in Heat

ON
1 2 3 4
Default

S2.4 – "End of network" configuration
ON   -   End of network
OFF   -   Not end of network

Temperature Sensors Logic

T1,0 - Return air sensor
The ambient (room) temperature can be sensed via the return air sensor.

T2,0 - Change-over sensor
Mode is automatically selected, based on the water temperature sensed by T2 (2-pipe system only) T2 > 30°C →Heat , T2 < 20°C →Cool

T3,0 - Indoor coil sensor
Soft-start in Heat
When T3 rises above (or equals) 36°C →The indoor fan will start working (according to FAN ON or AUTO FAN state)

When the temperature drops below 32°C →The indoor fan will turn OFF.

*When T3 is not connected:
- If AUTO FAN is selected, the indoor fan will start working 30 seconds after demand for heat.
- If FAN ON is selected, the indoor fan will work continuously.

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Title:
CTU2500-3S-FC-SUPER

Date: **30.10.08**

1   Original

30.10.08

Print name: PS-2600-ASU   Drawn: M.Ruchansky
Software name: Checked: O.Volovitch
Check sum :   Approved: E.Roy
File: CTU2500-3S-FC-SUPER.vsd