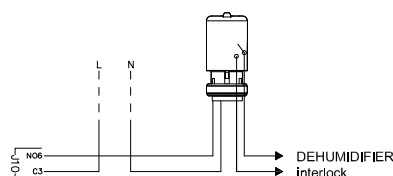


Key for electric diagram 26. 4T/1H for PCOC board

ID1	= External input: high temperature	CC	= Boiler interlock
ID2	= External input: low temperature	CF	= Chiller interlock
B5	= remote ON/OFF	RP	= Pump A relay
B6	= Boiler alarm	RS	= Summer/Winter relay
B7	= Chiller alarm	R_AG/AUX	= Frost protection relay/ Periodic auxiliary function relay
B8	= Summer/Winter selector	T1	= Zone 1 electrothermic head
T man	= Flow temperature sensor	RD	= Interlock Realy Dehumidifier
Text	= Outdoor temperature sensor	Y/Y2	= 0-10V signal for the mixing valve proportional servomotor
		BUS	= Bus for connection with expansion board MOD_Z1

NOTE:

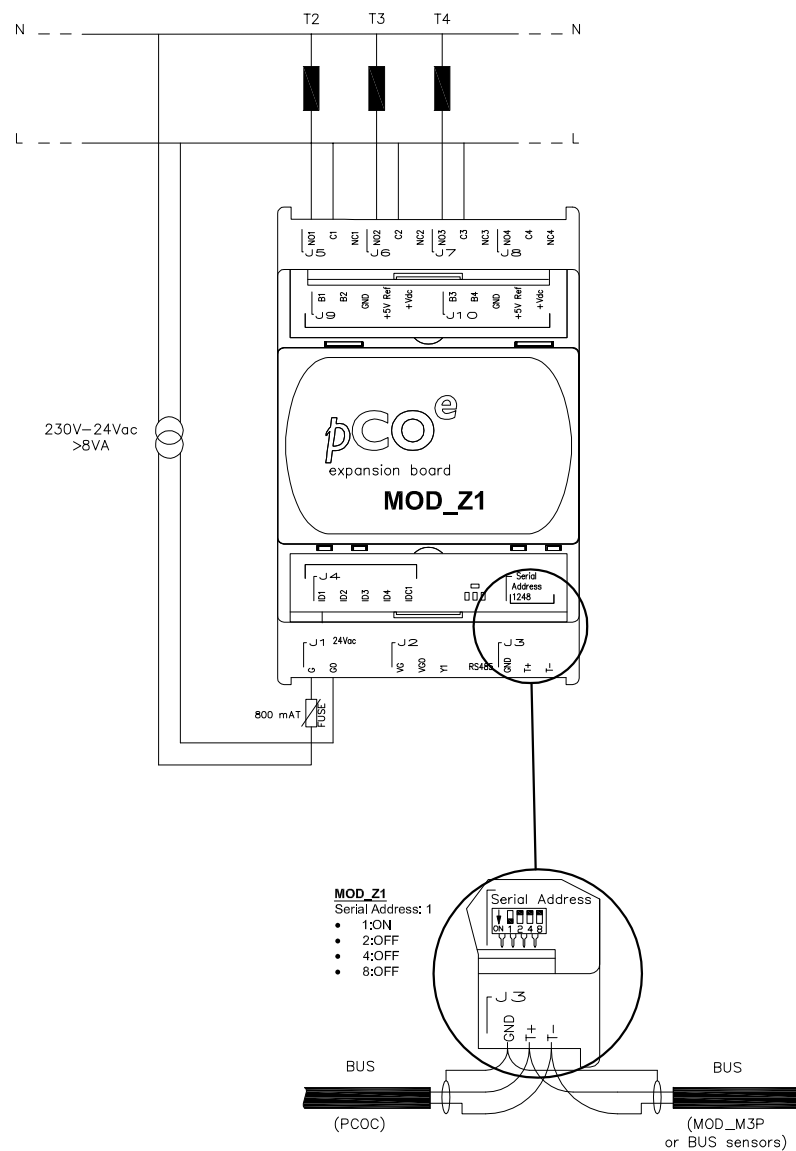
- Output J3 - Boiler interlock - Contact rating 8 A - 250 Vac - $\cos\phi = 1$
- Output J4 - PGD1 Large remote terminal connection via 6-wire telephone cable
- Output J10 - Chiller interlock - Contact rating 8 A - 250 Vac - $\cos\phi = 1$
- Output J11 - Contact rating 5 A - 250 V AC - $\cos\phi = 1$
- Output NO3 - Frost protection digital output, closed contact: frost protection function in progress. If the digital output is enabled from the advanced menu it is used for the periodic auxiliary function, closed contact: auxiliary function in progress. (The logic is invertible from the advanced menu)
- Output NO7 - Summer/Winter digital output, closed contact: Winter. (The logic is invertible from the advanced menu)
- Back-up relay always recommended. Also use change-over relays if you are using commons with different voltages
- Digital input ID1 - When the contact closes it requests high temperature from the thermostat
- Digital input ID2 - When the contact closes while the function is in progress, it requests low temperature from the thermostat (if enabled)
- Digital input B5 - Allows the system to be switched on or off remotely, when selected in the PCOC menu
- Digital input B6 - For connection of a boiler alarm circuit, where fitted by the boiler manufacturer
- Digital input B7 - For connection of a chiller alarm circuit, where fitted by the chiller manufacturer
- Digital input B8 - Allows the system to be switched in heating or cooling mode remotely, when selected in the PCOC menu
- The logic of the inputs can be inverted from the advanced menu
- For PCOC regulator input and output connections, use cables with a section that is proportional to the load (1,5 mm²)
- The current supply for the regulator and the supply for the 0-10V servomotor must be galvanically isolated, using either two transformers or one with two independent secondary circuits.
- If dehumidification is only carried out during the summer season every dehumidifier should be switched on from a corresponding electrothermic head equipped with a micro switch. When there is a request for dehumidification the electrothermic head is powered. When it opens the micro switch closes, in this way the dehumidifier switch on. (See the following diagram by way of example)



WARNING!

For graphic the common terminals of the sensors are shown schematically connected at the most convenient points. When wiring, run all leads of the probes to the terminals of the adjustment device and make the common connections at that point. This measure prevents electromagnetic disturbances which compromise correct signal transmission. Avoid running the cables of the sensors and of the digital inputs together with the power cables. It is advisable to use shielded cables for the connection of the sensors.

EMMET S.P.A. <small>A termini di legge e' vietato riprodurre o comunicare a terzi il contenuto del presente disegno. Proprieta' riservata.</small>	DENOMINAZIONE ELECT DIAGRAM PCOC 26_04T/1H BUS SENSOR		
	CODICE E60001460	FOGLIO 2/6	NOTE PCOC board



NOTE:

For the BUS connection Use a shielded pair cable twisted like BELDEN 8762 (max 500 m). Connecting chain, in-out mode, between the boards according to the polarity.

RIF.	COM. N°	DESCRIZIONE	ESEGUITO	DATA
①	AD 7527	PRIMA ESECUZIONE	MC	19.03.15
EWMET S.P.A.		DENOMINAZIONE		
A termini di legge e' vietato riprodurre o comunicare a terzi il contenuto del presente disegno. Proprieta' riservata.		ELECT DIAGRAM PCOC 26_04T/1H BUS SENSOR		
CODICE		FOGLIO	NOTE	
E60001460		3/6	PCOE Expansions	

Key for electric diagram 26. 4T/1H for EXPANSIONS boards


To configure the PCOE module as: expansion MOD_Z1 set 1 as the serial address. See diagram on how to set the DIP switches.

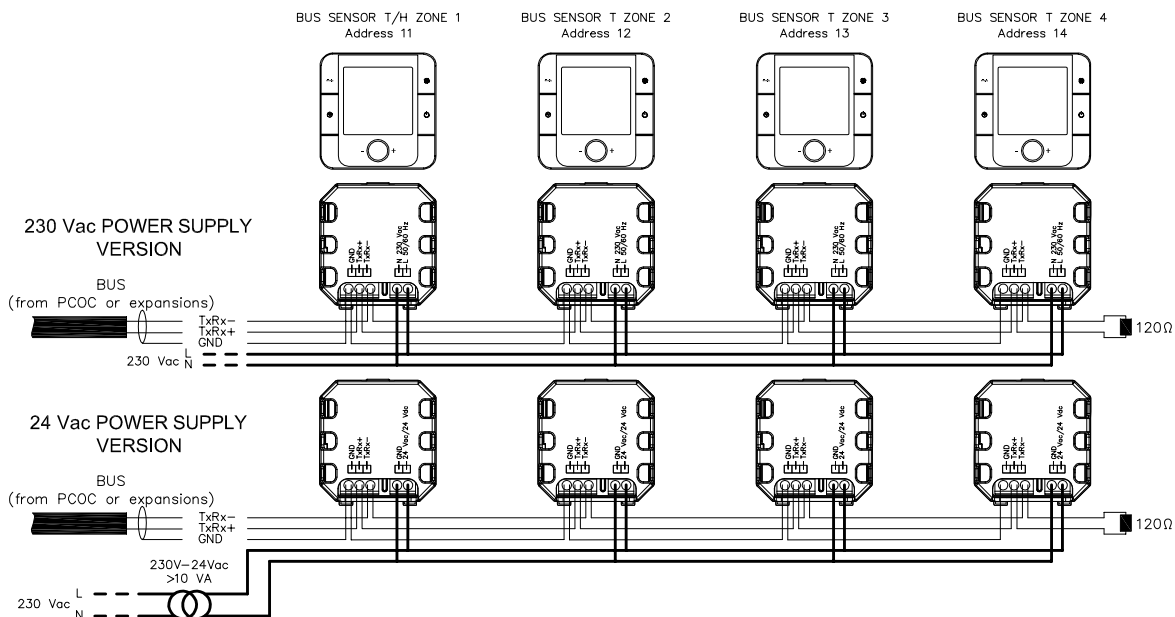
T2 = Zone 2 electrothermic head
T3 = Zone 3 electrothermic head
T4 = Zone 4 electrothermic head

BUS = Bus for the connection from PCOC to expansions boards MOD_Z1. Then the BUS must be connected to the expansion module MOD_M3P, if provided, or directly to the BUS sensors.

NOTES:

- Output J5, J6, J7, J8 - Contact rating 8 A - 250 V AC - $\cos\phi = 1$
- For regulator input and output connections, use cables with a section that is proportional to the load (1.5 mm²)

 EMMET S.P.A. <small>A termini di legge e' vietato riprodurre o comunicare a terzi il contenuto del presente disegno. Proprieta' riservata.</small>	DENOMINAZIONE ELECT DIAGRAM PCOC 26_04T/1H BUS SENSOR		
	CODICE E60001460	FOGLIO 4/6	NOTE PCOE Expansions



NOTE:

For the BUS connection Use a shielded pair cable twisted like BELDEN 8762 (max 500 m). Connecting chain, in-out mode, between the BUS sensors according to the polarity. The BUS sensor that occupies the last position on the supervision serial line it must be connected to a line closing resistance, with a value of 120Ω - 1/4W

RIF.	COM. N°	DESCRIZIONE	ESEGUITO	DATA
①	AD 7527	PRIMA ESECUZIONE	MC	19.03.15
EWMET S.P.A.		DENOMINAZIONE ELECT DIAGRAM PCOC 26_04T/1H BUS SENSOR		
A termini di legge e' vietato riprodurre o comunicare a terzi il contenuto del presente disegno. Proprieta' riservata.		CODICE E60001460	FOGLIO 5/6	NOTE BUS Sensors

Key for electric diagram 26. 4T/1H for BUS Sensors

For each BUS sensor set, during configuration, the serial address corresponding to the zone in which it is installed, see references on the diagram.

BUS SENSOR T/H = Room temp./humidity BUS sensor


BUS SENSOR T = Room temperature BUS sensor

GENERAL NOTES ON THE POWER SUPPLY

It is possible to power all of the boards (PCOC, MOD_Z1) with a single transformer providing a power supply of 24 Vac $\pm 10\%$ -15% 50/60 Hz and a power of at least 30 VA. Alternatively, it is possible to use a transformer that provides a power supply of 28Vdc $\pm 10\%$ -20% and a power of at least 21 W. Use the same polarity (G, G0) for the power supply for all the boards and similarly the same polarity (GND, 24 V) for all probes BUS.

The power supply for PCOC and PCOE controls must be separate from the power supply of the 0-10V servomotor(s).

IMPORTANT: The power supply of the BUS sensors must come from the same PCOC regulator power supply, switch on or switch off the PCOC regulator must, respectively, switch on or switch off, at the same time, all the BUS sensors.

 EMMET S.P.A. <small>A termini di legge e' vietato riprodurre o comunicare a terzi il contenuto del presente disegno. Proprieta' riservata.</small>	DENOMINAZIONE ELECT DIAGRAM PCOC 26_04T/1H BUS SENSOR		
	CODICE E60001460	FOGLIO 6/6	NOTE BUS Sensors