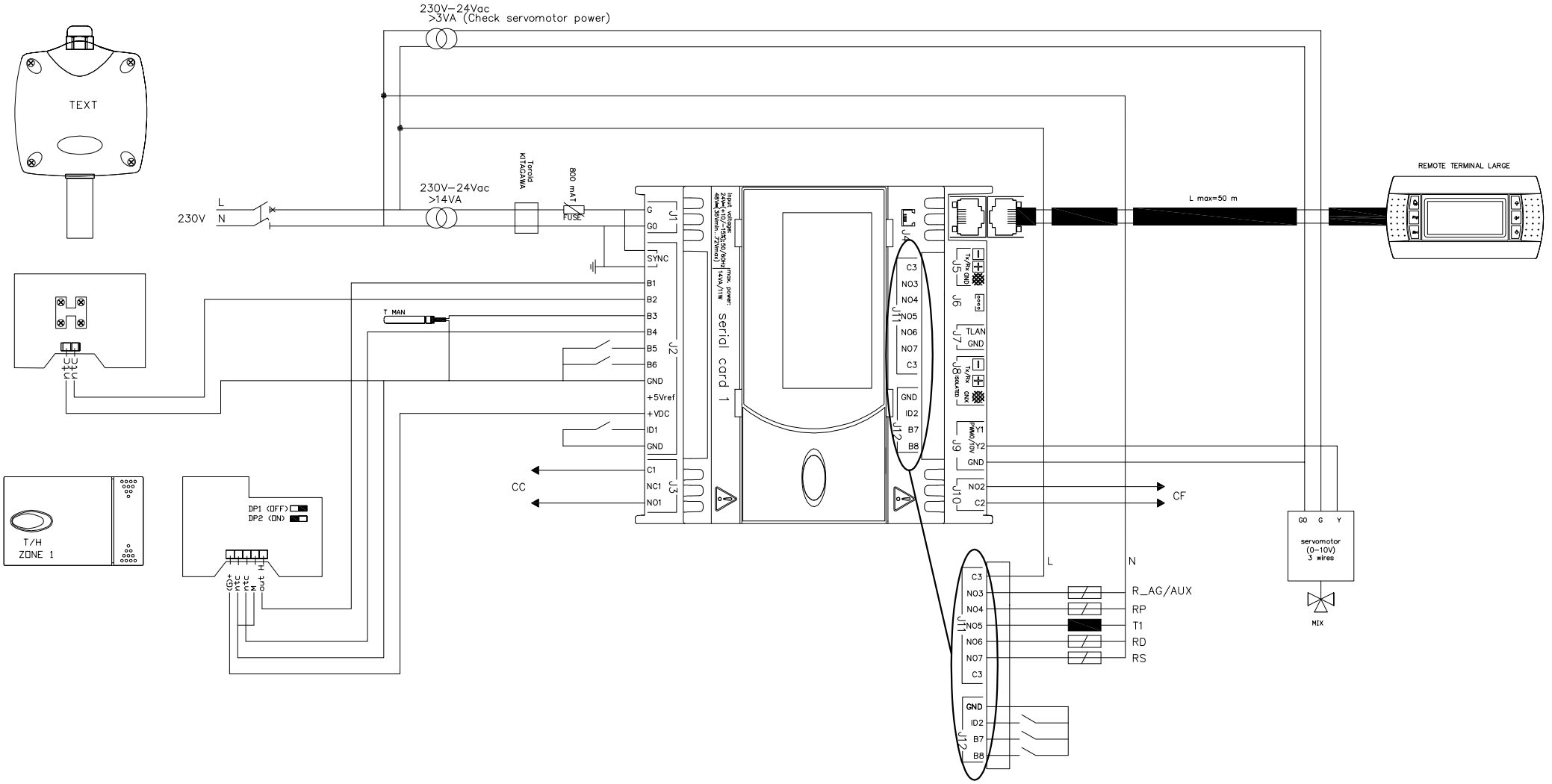


SW: 28162100B

RIF.	COM. N°	DESCRIZIONE	ESEGUITO	DATA
0	AD 7527	PRIMA ESECUZIONE	MC	19.03.15

EMMETI S.P.A

DENOMINAZIONE: ELECT DIAGRAM PC□C 00_01T/1H

CODICE: E60000940

FOGLIO: 1/2

NOTE: PC□C board

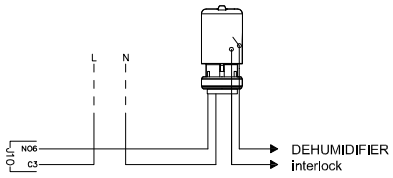
Key for electric diagram 0. 1T/1H for PCOC board

ID1 = External input: high temperature
ID2 = External input: low temperature
T/H 1 = Room temp./humidity sensor ZONE 1
B5 = remote ON/OFF
B6 = Boiler alarm
B7 = Chiller alarm
B8 = Summer/Winter selector
T man = Flow temperature sensor
Text = Outdoor temperature sensor

CC = Boiler interlock
CF = Chiller interlock
RP = Pump A relay
RS = Summer/Winter relay
R_AG/AUX = Frost protection relay/ Periodic auxiliary function relay
T1 = Zone 1 electrothermic head
RD = Interlock Realy Dehumidifier
Y/Y2 = 0-10V signal for the mixing valve proportional servomotor

NOTE:

- Output J3 - Boiler interlock - Contact rating 8 A - 250 Vac - cosϕ = 1
- Output J4 - PGD1 Large remote terminal connection via 6-wire telephone cable
- Output J10 - Chiller interlock - Contact rating 8 A - 250 Vac - cosϕ = 1
- Output J11 - Contact rating 5 A - 250 V AC - cosϕ = 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)



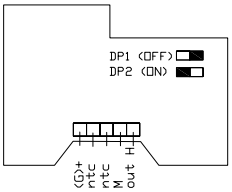
WARNING!

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.

IMPORTANT!

T/H temperature and humidity sensors: before closing the T/H probes, check that jumpers DP1 - DP2 are positioned as in the figure.

This operation enables output "out H" of the probe with signal 4/20 mA for correct measurement of humidity.



out H = humididty output (0/1 Vdc o 4/20 mA)
M = reference for both power supply and outputs
+ (G) = power supply (12/24 V AC or 9/30 V DC)
ntc = NTC resistive output
DP1 = OFF
DP2 = ON

EMMETI S.P.A.	DENOMINAZIONE: ELECT DIAGRAM PCOC 00_01T/1H		
	CODICE: E60000940	FOGLIO: 2/2	NOTE: PCOC board