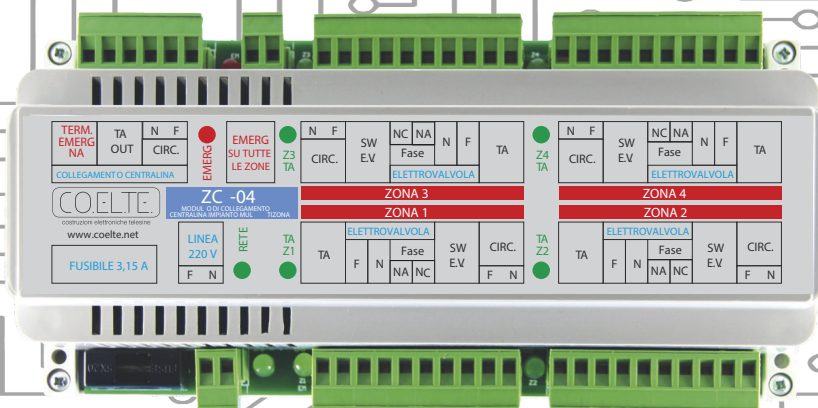


costruzioni elettroniche telesine

ZC-04 Multi-zone heating



User manual and instructions
for maintenance



RISCALDAMENTO
MULTIZONA

COELTE.NET

Manual ZC-04
Code: 3050
Item: ZC-04

Made by: coelte.net

ZC-04

The electronic control unit ZC-04 lets you connect quickly and intuitively up to 4 heating zones, through the connection for each area of a room thermostat, a zone solenoid valve and a circulation pump.

Through quick connecting terminal blocks you can connect:

- N° 4 heating zones, each consisting of:
 - N° 1 room thermostat input;
 - N° 1 solenoid valve output with exchange 220V;
 - N° 1 Switch solenoid valve input;
 - N° 1 circulation pump output synchronized through the Switch;
- N° 1 Signaling LED active zone;
- N° 1 NA output for piloting input TA of the control unit;
- N° 1 220V consensus input circulation pump, signal which is taken directly from the exit of the circulation pump control units;
- N° 1 NA input emergency thermostat, **[Note: some dispositives CO.EL.TE. as the item 350 350 Top e 450Top have a dedicated safety output that can directly drive;**
- N° 1 configuration terminal to enable all the areas as an emergency exit through the closure of the two PIN, leaving the open terminal, only zone 1 is enabled to thermal disposal of emergency;

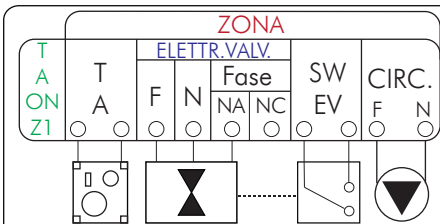
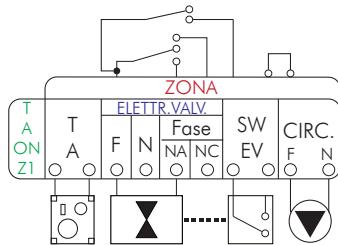
Electrical characteristics:

- Supply 230v
- electricity consumption 1,5VA
- maximum load single output 4A
- protection fuse 3,15°
- with a size of 12 seats DIN, it can be housed within squares for control units and easily set through snap on bail DIN.

Connections

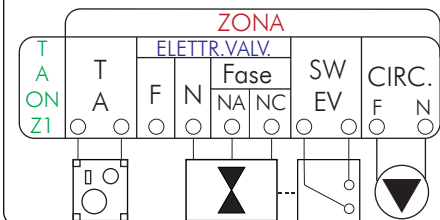
The connection of each area uses a 10 Pin terminal block, where we can find:

- 1 input for the only contact of the room thermostat (pin at low voltage),
- 2 direct supply pin 220 volts,
- 2 pin with sharing stage,
- 2 pin connection for solenoid switch (crossed by 220 volt) and an output for the circulation pump zone.



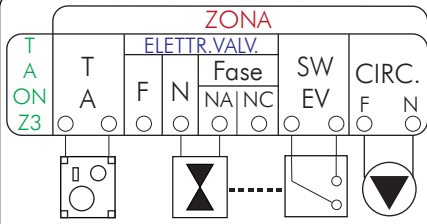
Example 1

Always powered solenoid valve and equipped with switch limit for start circulator



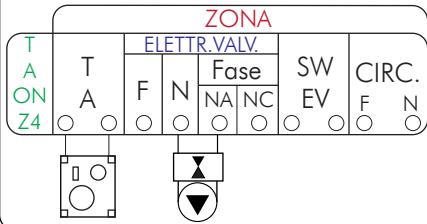
Example 2

Solenoid valve with three wires: Common + phase opening + closing phase with switch limit for start circulation pump



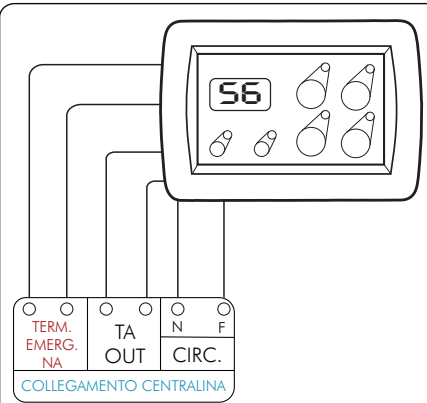
Example 3

2-wire solenoid valve with spring return with switch limit for start circulation pump



Example 4

Direct control circulation pump zone



biomass boiler unit connections

Terminal TERM-EM

activation control emergency zones output

Terminal TA-OUT

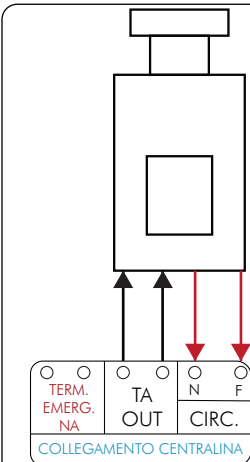
contact NA that is activated at the closure of one of the room thermostats

Terminal CIRC

input circulator line from the control unit

Terminal EMERG x4

If this terminal is left unconnected, the intervention of the TERM-EM only controls the start of ZONE 1, if it is closed (es.bridge) the intervention of the TERM-EM controls all areas



Connections gas boiler unit

Terminal TERM-EM

don't connect

Terminal TA-OUT

contact NA that is activated to the closure of one of the room thermostats

Terminal CIRC

input circulation pump line from the boiler must be connected in parallel to the circulation pump of the boiler to synchronize control of the valves and circulation zone at the start of the circulating pump boiler.

Terminal EMERG x4

don't connect

