



Wiring centre

► ALC 01

Wiring centre for zone control (max. 8 zones).

■ INTRODUCTION

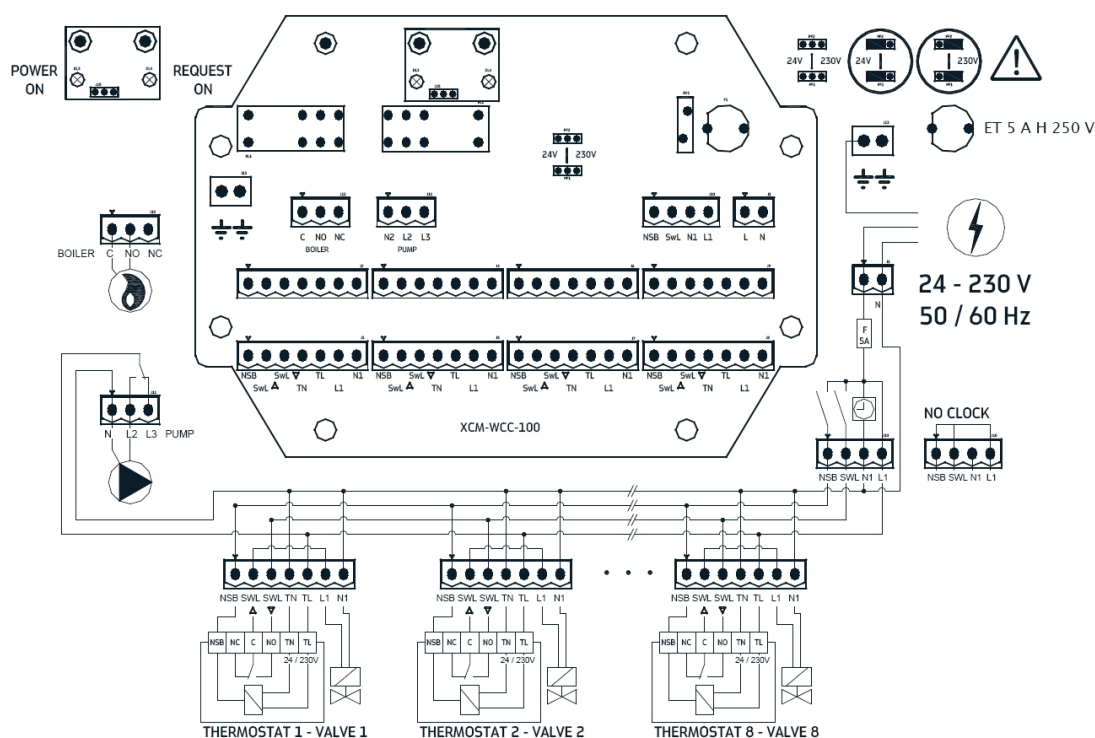


ALC 01 is a connection unit powered at 230 VAC or 24 VAC which allows the connection of up to 8 thermostats. Each thermostat corresponds to an independent zone which is controlled by switching on or off electrothermic heads installed on the distribution manifolds. If necessary, ALC 01 activates the secondary or boiler pump when there is heating demand from at least one zone.

■ TECHNICAL DATA

Power supply	230 - 24 V ac 50 Hz
Fuse	F1, 5 A 250 V "ET 5 A H 250 V"
Type of appliance	Electronic, digital
Type of activation/deactivation	1.B
Transport and storage temperature range	-20 °C ÷ 54 °C (-4 °F ÷ 130 °F)
Operating temperature range	-5 °C ÷ 45 °C (23 °F ÷ 110 °F)
Conformity	RED 2014/53/EU
Type of output	Switching relay max 16 A 230 V AC / 16 A 30 V DC
Dimensions L x H x D	180 x 130 x 65 mm
CE mark	CE

■ WIRING DIAGRAM



L N	Voltage input 24 - 230 V ac 50/60 Hz
NSB SWL N1 L1	Contact for clock
C NO NC Boiler	Contact for boiler
N2 L2 L3 Pump	Pump power supply
NSB SW ▼ SW ▲ TN TL L1 N1:	Contacts for room thermostat and electrothermic head
• NSB	Contact for night-time reduction control (if envisaged on thermostat)
• SW ▼ SW ▲	Thermostat contact
• TN TL	Thermostat control power supply (if required)
• L1 N1	Electrothermic head power supply

■ OPERATION

ALC 01 manages up to 8 zones and powers these zones by transferring the same power that it receives from its own power supply.

The presence of an external clock is used to activate/deactivate all zones simultaneously; if no clock is used, a jumper should be wired in between "L1" and "SW" on the 4-pin terminal board, as shown on the wiring diagram.

For each zone, closure of contacts marked "SW" will set the zone to "request" status:

- Activates power to the electrothermic head
- Activates the "Boiler" relay
- Activates the "Pump" relay

For each zone, opening of contacts marked "SW" will shut off power to the corresponding electrothermic head and deactivates permissions both to the pump and boiler. In any case, if another zone is still in the "request" status, the boiler and pump enable commands remain active.

If the thermostats accept an input for night-time reduction, an additional clock can be used with the command between terminals "L1" and "NSB" of the 4-pin terminal.

■ SPECIFICATION SUMMARY

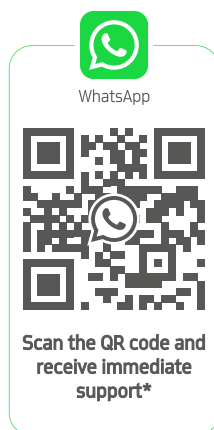
ALC01	Wiring centre for control of ambient temperature of up to 8 zones, including electronic board equipped with printed circuit, terminal board and relay. Allows control of the secondary pump for the radiant system, control of boiler call signal, connection of an ambient thermostat for each zone (max 8 thermostats), electrothermic head enablement, "All On/Off" timer input (optional) and "Night-time reduction" timer input (optional). Device to be installed in wall-mount or recessed boxes. Power supply: 230 V AC or 24 V AC. Maximum current: 16A/230VAC - 16A/30VDC. Actuation type: 1.b. Maximum operating temperature: 45 °C. Dimensions: 180 x 130 x 65 mm.
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■ CODES

ALC01	Wiring centre for ambient temperature control of up to 8 zones.
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