



MC32 controller module

Features

- Regulation of up to 32 heating circuits per module
- User-defined group alarms
- Number of heating circuits extendable at will

Description

The MC32 controller module regulates and monitors up to 32 heating circuits. It flexibly accesses the individual I/O modules by means of the bus system integrated in the DIN rail.

By inserting more MC32 modules into the bus, the number of heating circuits to be monitored can be increased at will. Two setpoint values can be assigned to each heating circuit and changed by means of an external switching contact.

The MC32 monitors parameters, such as temperature, overheating, load current, residual current, and external status signals such as rccb auxiliary contacts, limiter alarms, manual switches etc. for each of the 32 heating circuits individually

Up to three temperature sensors per circuit are monitored, whereby the controlled variable is fixed in relation to one sensor. The other sensors serve to monitor a high and a low alarm value.

Individual upper and lower limits can be assigned to each monitored value and individual alarms emitted by means of the MPC^{net} control system's digital outputs.

In addition, all individual alarms can be emitted through the MC32 module's group alarm contact to an indicator light or suchlike. The bus status signals and alarms are also indicated by means of LEDs.

Connecting the GW32 gateway and PA00 touch-panel allows a transfer not only of the setpoint and actual values but also of all alarms into a higher ranking control. All of the control system's parameters and alarms can be altered or acknowledged from the control centre.

See System Description for the Installation Instructions.

➔ Technical data

Enclosure material

Polyamide PA

Protection class (EN 60529)

IP 20

Electrical connections

plug-in screw-type terminal, 3-pole terminal range 0.2 to 2.5 mm²
RJ45 jack

Fastening to mounting rail

TH 35-15 DIN EN 60715 (metal)

Dimensions (W x H x D)

17.5 mm x 100 mm x 114.5 mm

Weight

108 g

Storage and transport temperature

-30 °C to +70 °C

Operating temperature

0 °C to +60 °C

Degree of contamination

2

■ Electrical data

Voltage supply

DC 24 V by means of an internal bus

Current consumption

65 mA

Displays

LEDs in the front of the enclosure:
Bus status, TRIAC status, alarm, power

■ Bus connection to I/O modules

Configurable inputs per heating circuit

Temperature measurements

each 1 x temperature, controller, limiter and alarm sensor

Digital inputs

Setpoint selection, alarm suppression, Alarm contact monitoring by contactor, circuit-breaker and residual-current protective device, Heating output reduction (25 %, 50 %, 75 %), Heating switch-off, limiter monitoring

Current measurement

Load current (1ph and 3ph)
Residual current

Configurable outputs per heating circuit

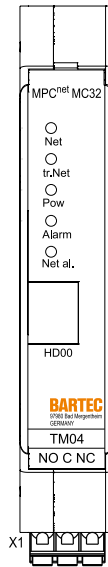
Control outputs

Digital output for activation of power contactor or direct activation of the heating circuit through TRIAC

Alarm outputs

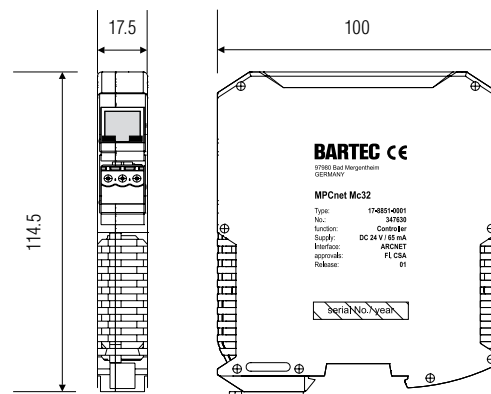
Overheating
Triggering of limiter
Group alarm
Residual-current alarm

Wiring diagram/terminal assignment



Terminal block	Terminal	Description
X1	NO	normally open contact
	C	common
	NC	normally closed contact

Dimensions (in mm)



➔ **Order no.**
MPC^{net} MC32 controller module
17-8851-0001

Technical data subject to change without notice.