

Zentro Core M-014

Safety and Quick Start · For the installer and the panel builder

Part number ZN-COREM-001 · Document number ZT-QS-CORE-M014-001-EN

This document is supplied with the product. Retain it for future reference.

SAFETY

WARNING

Disconnect the supply before any wiring work. Working on a live circuit risks personal injury and irreversible damage to the unit.

CAUTION

A line terminator fitted at more than two points will load the line and degrade communication.

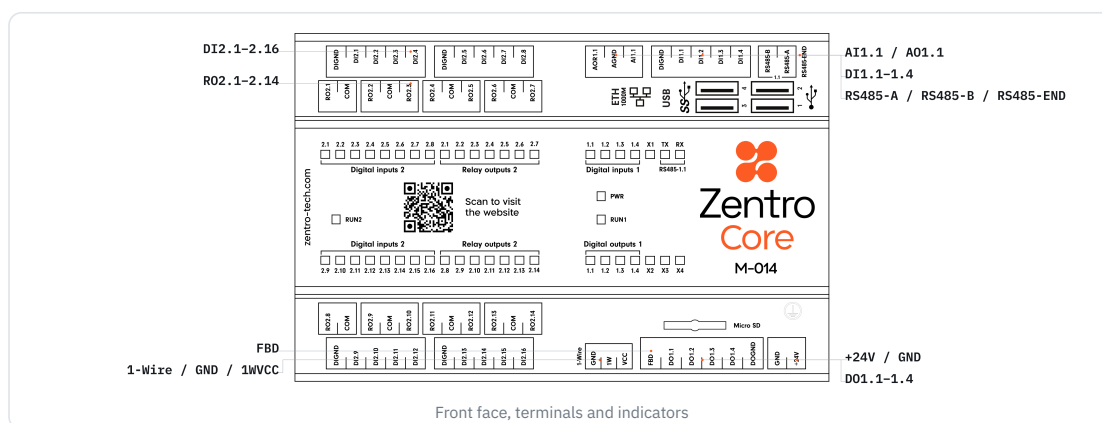
NOTE

Add external protection to every inductive load — an RC circuit, a varistor or a diode.

OPERATING LIMITS

Supply voltage	24 V DC (SELV)
Operating temperature	0 ... +55 °C
Ingress protection	IP 20
Tightening torque	Max 0.4 N·m

TERMINALS AND CONNECTORS



DI1.1-1.4	Digital inputs — common DIGND
D01.1-1.4	Transistor outputs — common DOGND
AI1.1 / A01.1	Analogue input and output — common AGND
RS485-A / RS485-B / RS485-END	Serial line
1-Wire / GND / 1WVCC	Sensor bus
FBD	Flyback diode for the digital outputs
+24V / GND	Supply
DI2.1-2.16	Digital inputs, section 2 — common DIGND ×4
R02.1-2.14	Relay outputs, section 2 — common COM

FIRST POWER-UP

1. Ensure the supply is disconnected before any work.
2. Fit the DIN rail holder if it is not already installed, metal spring at the top.
3. Clip the unit onto the 35 mm DIN rail in the vertical position, spring side first.
4. Leave at least 80 mm between the unit and the enclosure walls where there is no forced ventilation.
5. Connect an earth conductor to the marked point on the enclosure using a cable lug and an M4 screw, and confirm the DIN rail is earthed.
6. Connect the 24 V DC supply: positive to +24V, negative to GND.
7. Connect the digital inputs to the DI terminals and to the shared DIGND terminal.
8. Connect the relay outputs to the RO terminals and to the COM terminals.
9. Connect the RS-485 line to the A and B terminals, and fit a line terminator at the two ends of the line only.
10. Connect 1-Wire sensors to the RJ45 connector, up to 15 sensors per channel, using 24 AWG 0.5 mm cable.
11. Tighten the terminals to no more than 0.4 N·m, using a 3 or 3.5 mm flat screwdriver.

The product's full document set is available on the website. zentro-tech.com