

Zentro Expand

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

Part number ZN-EXPAND-001 · Document number ZT-QS-EXPAND-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.

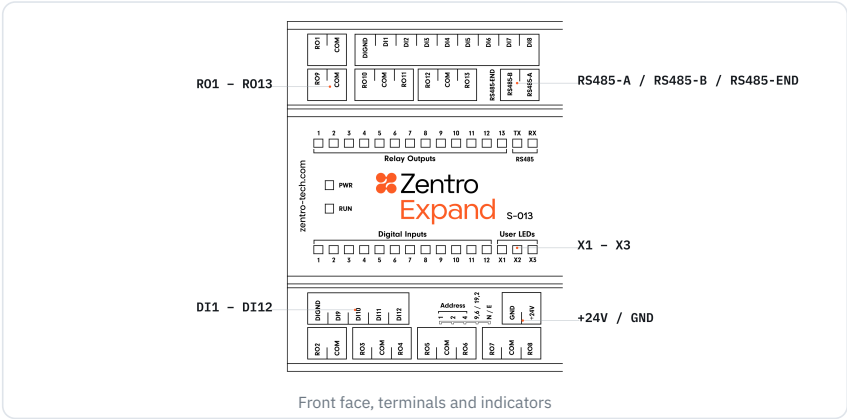
**CAUTION**  
A line terminator fitted at more than two points will load the line and degrade communication.

**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          |

TERMINALS AND CONNECTORS



|                               |                                         |
|-------------------------------|-----------------------------------------|
| DI1 – DI12                    | SINK-type digital inputs — common DIGND |
| R01 – R013                    | Relay outputs — common COM              |
| RS485-A / RS485-B / RS485-END | Modbus RTU serial line                  |
| +24V / GND                    | Supply                                  |
| X1 – X3                       | User indicators                         |

FIRST POWER-UP

1. Ensure the supply is disconnected before any work.
  2. Set the Modbus address and communication parameters on the DIP switches.
  3. Clip the module onto a 35 mm DIN rail in the horizontal position.
  4. Connect the digital inputs to the DI terminals and to the DIGND terminal shared by each group.
5. Connect the relay outputs to the RO terminals and to the COM terminals.
  6. Add external protection to every inductive load — an RC circuit, a varistor, a diode or a thermistor.
  7. Connect the RS-485 line to the A and B terminals, and fit a line terminator at the ends of the line only.
  8. Connect the 24 V DC supply, conductor cross-section up to 2.5 mm².



The product's full document set is available on the website. [zentro-tech.com](http://zentro-tech.com)