

Zentro Expand

Expansion module — 12 inputs and 13 relay outputs

Zentro Expand is an expansion module that adds 12 digital inputs and 13 relay outputs to a control system. It connects to the controller over Modbus RTU on a galvanically isolated RS-485 line, allowing control points to be added at a distance from the main controller. The inputs include a pulse counter with memory and support the Direct Switch function, which links an input directly to an output.

Part number ZN-EXPAND-001

HIGHLIGHTS

Total I/O points	25
RS-485 channels	1
Protocols	Modbus RTU
Supply voltage	24 V DC (SELV)
Dimensions (W × H × D)	72 × 90 × 56 mm
Mounting	35 mm DIN rail, holder included

TYPICAL APPLICATIONS

1. How does the module connect to the controller?

Over an RS-485 line using Modbus RTU. The default is address 15 at 19 200 bps, 8 bits, no parity. The address can be changed in register 1028 for the range 1 to 254.

2. Are the relays protected?

No. There is no short-circuit and no overvoltage protection. The relays are intended for resistive loads; an inductive load requires external protection — an RC circuit, a varistor, a diode or a thermistor.

3. What is Direct Switch?

A direct link between a digital input and a relay output, executed by the module's own processor. It keeps working even if communication with the controller is lost, and supports identity, negation and toggle.

PRODUCT FAMILY

Zentro Core M-014	ZN-COREM-001
Zentro Core L-028	ZN-COREL-001
Zentro Link	ZN-LINK-001
Zentro Sense	ZN-SENSE-001
Zentro Expand ←	ZN-EXPAND-001



Full detail and documents on the website — zentro-tech.com · Document number ZT-DS-EXPAND-001-EN

