

Module containing 5 relay digital outputs with MODBUS protocol on RS485 Z-D-OUT

GENERAL SPECIFICATIONS

- 5 SPST relay outputs – NO with common line, capacity 5A-250Vac resistive, 2A inductive.
- Pull-out terminals, section 2.5mm².
- Possibility of setting relays as NO or NC (rest status).
- Setting of relay safety status at start-up or in the event of no communication.
- Safety time settable from 50 to 2500 ms.
- Possibility of ON-LINE configuration.
- RS485 serial communication with MODBUS – RTU protocol, maximum 32 nodes.
- 2500Vac output insulation with respect to remaining low voltage circuits.
- Power supply and serial connection wiring facilitated by means of a bus that can be housed in the DIN guide. The terminals can still be used.
- Insertion into and removal from bus without interrupting communication or system power supply.
- Communication times below 10 ms (@ 38400 baud).
- Connection distance up to 1200 m.

TECHNICAL SPECIFICATIONS

Power supply:	19–40 Vdc, 19–28 Vac 50-60Hz, max 2.5W
Communication port:	2 wire RS485 serial with settable speed: 9600, 19200, 38400, 57600 baud
Protocol:	Modicon MODBUS RTU
Output:	5 SPST NO relay outputs with common line
Ambient conditions:	Temperature: 0..55°C, min. humidity 30%, max 90% at 40°C non-condensing
Protection rating:	IP20
Weight, dimensions	160g, 100 x 17.5 x 112 mm
Standards	The instrument complies with the following standards: EN50081-2 (electromagnetic emission, industrial environment) EN50082-2 (electromagnetic immunity, industrial environment) EN61010-1 (safety)



INSTALLATION

The Z-D-OUT module is designed to be fitted on DIN 46277 guide, in a vertical position. For optimal operation and long life, adequate ventilation must be provided for the module(s), avoiding positioning channels or other objects that obstruct the ventilation louvers. Avoid fitting modules above equipment that generates heat; you are advised to fit them at the bottom of the panel.

HARSH OPERATING CONDITIONS:

When the modules are fitted side by side it may be necessary to separate them by at least 5 mm if the panel temperature is above 45°C and operating conditions are harsh.

The following constitute harsh operating conditions:

- High power supply voltage (> 30Vdc / > 26 Vac).
- Sensor power supply at input.

NOTE: Use of the DIN guide connectors ensures practical fitting and correct ventilation of the modules.