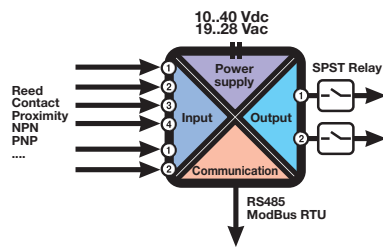# Z-D-IO
## 8-CH, 6 DIGITAL INPUT - 2 DIGITAL OUTPUTS CONTROL MODULE / RS485

Z-D-IO has N.6 digital inputs, N.2 SPST relays, capacity of 2Aac, 250 Vac. It can be used as simple Input/Output module or, through dip-switches, is possible to acticate special functions to drive motors, pneumatic and motorised valves.The module is ModBUS Slave and can be coupled with any ModBUS Master device. A 3-way galvanic isolation among Power supply // output // RS485 circuits assures the integrity of your datas.

## TECHNICAL SPECIFICATIONS

### General Data

| | |
|---|---|
| Power supply | 10..40 Vdc / 19..28 Vac / 50-60 Hz |
| Power consumption | 2,5 W |
| Isolation | 1.500 Vac (3 way) |
| Power transducers | Yes |
| Status Indicators | Power supply, error, data transmission, data reception, input status |
| Protection Degree | IP20 |
| Operating Temperature | -10..+65 °C |
| Dimension (W x H x D) | 17.5 x 100 x 112 mm |
| Mounting | 35 mm DIN rail guide |

### Communication, Memory Process

| | |
|---|---|
| Interface | 2 wire RS485 |
| Speed | Up to 115.200 bps |
| Protocol | ModBUS RTU slave |
| Communication Time | < 10 ms (38400 baud) |
| Distance | Up to 1.200 m |
| Connectivity | Max 32 nodes |
| Data Memory | EEPROM for the configuration parameters, retention time 10 years, N° 5 registers 16 bit, N° 5 bit overflow |

### Signals

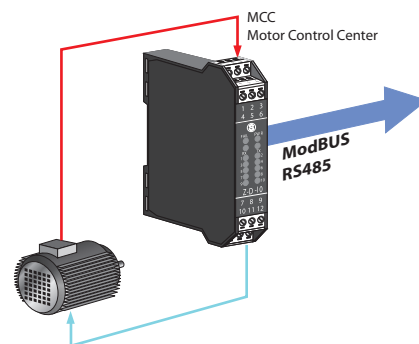| | |
|---|---|
| Channel Numbers | 8 |
| Input | N.6 Opto-isolated for REED, PROXIMITY, PNP, NPN, contact, etc. |
| Output | N.2 SPST relay outputs with common contact, capacity 5A 250Vac. Internal jumpers for selecting an NO or NC contact for each relay. |

### Programming

| | |
|---|---|
| DIP switches | Baud rate, node, parity, serial port, bit stop, termination line |
| Software | Z-NET3 (lec 61131) EASY Z-D-IO (plug&play) |

### Standard

| | |
|---|---|
| Approval | CE, RINA |
| Norms | EN 50081-2; EN 55011; EN 50082-2; EN 61000-2-2/4; EN 50140/141; EN 61010-1 |

## APPLICATION NOTE



MCC Motor Control Center

ModBUS RS485

## ORDER CODES

| Code | Description |
|---|---|
| Z-D-IO | 8-CH, 6 digital input - 2 digital outputs control module / RS485, 10..40 Vdc / 19..28 Vac |

## ACCESSORIES & SOFTWARE

| Z-PC-DIN | Z-SUPPLY | Z-NET | EASY SETUP |
|---|---|---|---|
| Backplane for power & bus communication | Switching power supply | IEC 61331 programming software | Plug&Play configuration software |
| pg. 36 | pg. 36 | pg. 36 | pg. 36 |

## SIMILAR PRODUCTS

| Z-10-D-IN | Z-D-IN | ZC-24-DI | ZC-16DI-8DO |
|---|---|---|---|
| 10-CH Digital Input module / RS485 | 5-CH Digital input module / RS485 | 24 CH digital input CANopen / ModBUS | 16 CH digital input - 8 CH digital output CANopen / ModBUS |
| pg. 12 | pg. 10 | pg. 28 | pg. 30 |