

PRODUCT OVERVIEW

Thank you for purchasing the CR-IO-16DI-RS from the Core IO range.

The Core IO is a reliable and easily configured distributed I/O module range compatible with any Modbus controller.

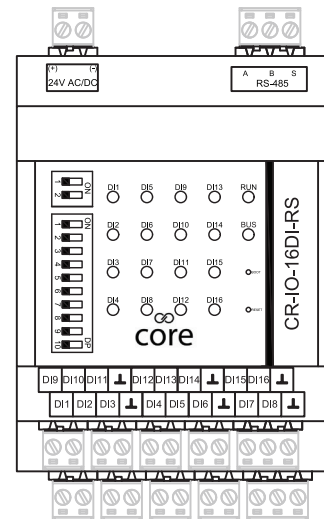
You can configure the CR-IO-16DI-RS easily via the dedicated Android app. All you need is an Android device with a camera and Bluetooth. Once you have installed the dedicated app, open it up and scan the QR code on the device located next to the power supply. Once the QR code has been recognised the app will connect to the device and you will be able to start configuration.

You can also configure the CR-IO-16DI-RS via Modbus. Please see the manual for full instructions.

The CR-IO-16DI-RS comes with an RS485 connection. The CR-IO-16DI-RS has 16DI. The inputs are configurable for pulse counting, various types of sensors and logic direction.

All the Core IO range comes with opto-isolation on the RS485 building automation controller port.

For all documentation and downloads, please visit.
<https://support.innon.com/CoreIO>



| DS7 | DS8 | DS9 | BAUD RATE |
|-----|-----|-----|-----------|
| OFF | OFF | OFF | 4800 |
| ON | OFF | OFF | 9600 |
| OFF | ON | OFF | 19200 |
| ON | ON | OFF | 34800 |
| OFF | OFF | ON | 57600 |
| ON | OFF | ON | 76800 |
| OFF | ON | ON | 115200 |
| ON | ON | ON | 230400 |

DIPSWITCH CONFIGURATION

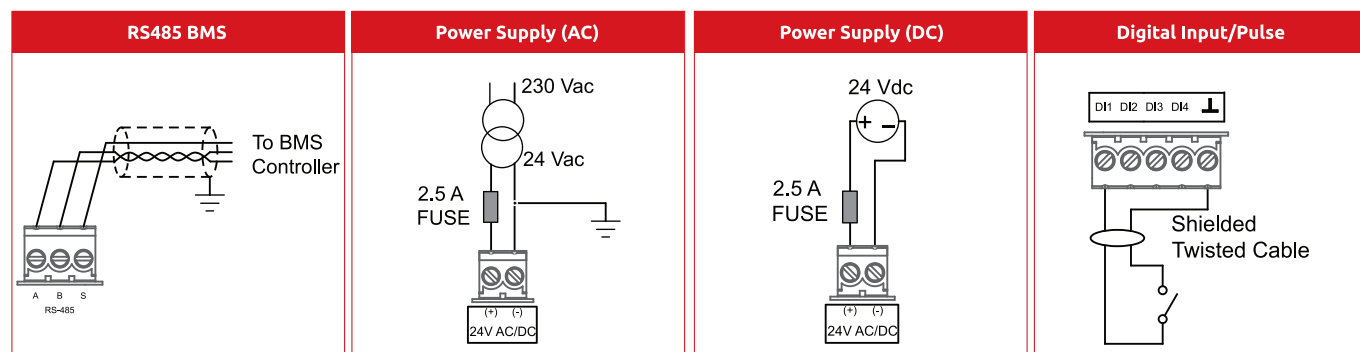


Dipswitch 1 to 6: Modbus slave ID (binary notation, dipswitch 1 = bit 0, dipswitch 6 = bit 5)
Dipswitch 7 to 9: baud rate
Dipswitch 10: not used



EOL dips 1: bias resistor
EOL dips 2: termination resistor

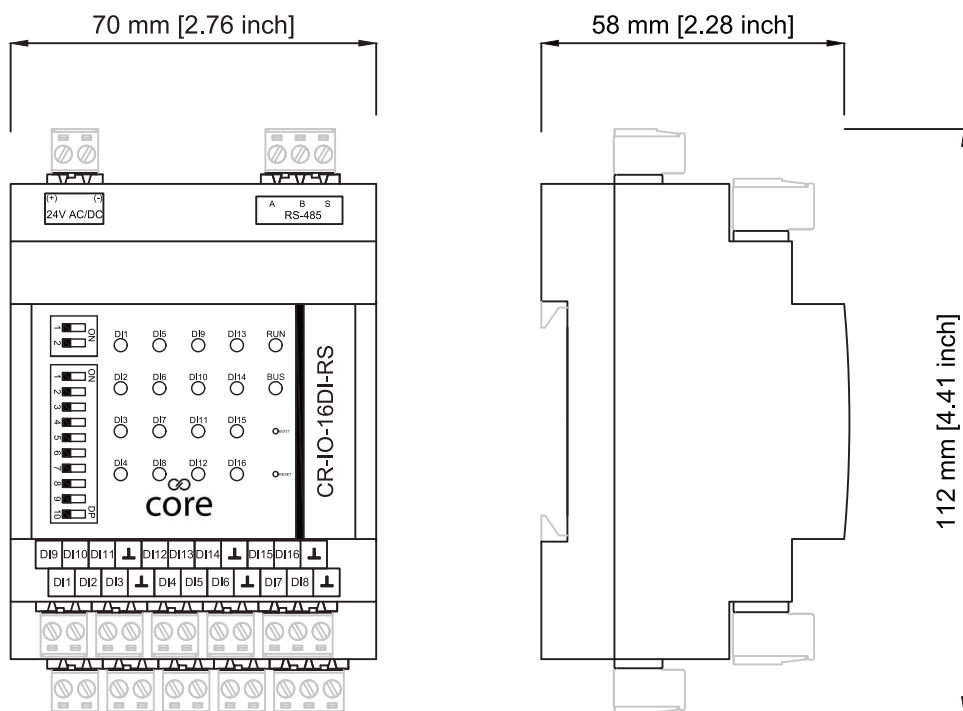
WIRING



TECHNICAL SPECIFICATION

| | |
|----------------------------------|---|
| Power supply | 24 Vac +10%/-15% 50 Hz, 24 Vdc +10%/-15% |
| | Current draw – 70mA min, 80mA max |
| Digital Inputs | 16 x Digital Inputs (volt free) |
| | DI direct, DI reverse, PULSE (up to 100 Hz, 50% duty cycle, max 50 ohm contact) |
| Interface to BMS | RS485, opto-isolated, max 63 devices supported on the network (all versions) |
| | Ethernet/IP (IP version only) |
| Protocol to BMS | Modbus RTU, baud rate 4800 – 230400, 8 bit, no parity, 1 stop bit (all versions) |
| | Modbus TCP (IP version only) |
| Ingress Protection Rating | IP20, EN 61326-1 |
| Temperature and humidity | Operating: 0°C to +50°C (32°F to 122°F), max 95% RH (without condensation) |
| | Storage: -25°C to +75°C (-13°F to 167°F), max 95% RH (without condensation) |
| Connectors | Plug-in Terminals 1 x 2.5 mm ² |
| Mounting | Panel mounted (2x on-board sliding screw holders on the back) / DIN rail mounting |

CR-IO-16DI-RS Technical Drawing



CR-IO-16DI-RS Install Sheet ver 1.0

Registered address: Global House, 1 Ashley Avenue, Epsom, Surrey KT18 5AD, United Kingdom | Company Number:6740177 | VAT Number:941 2897 05



For support go to www.innon.com/support
 To setup your Core IO please visit www.innon.com/setup
support@innon.co.uk +44 (0) 20 3953 4100

www.innon.com