

PRODUCT OVERVIEW

Thank you for purchasing the CR-IO-40MULTI-RS from the Core IO range.

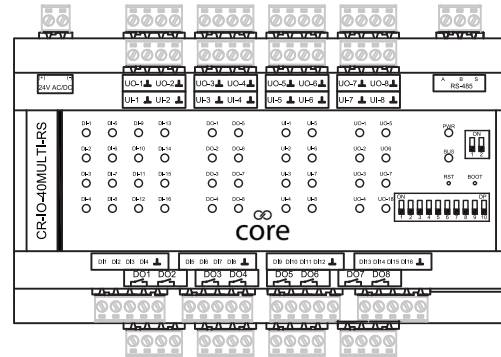
The Core IO is a reliable and easily configured distributed I/O module range compatible with any Modbus controller.

You can configure the CR-IO-40MULTI-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-40MULTI-RS via Modbus. Please see the manual for full instructions.

The CR-IO-40MULTI-RS comes with an RS485 connection. The CR-IO-40MULTI-RS has 8UI,16DI, 8DO, 8UO. The inputs and outputs 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



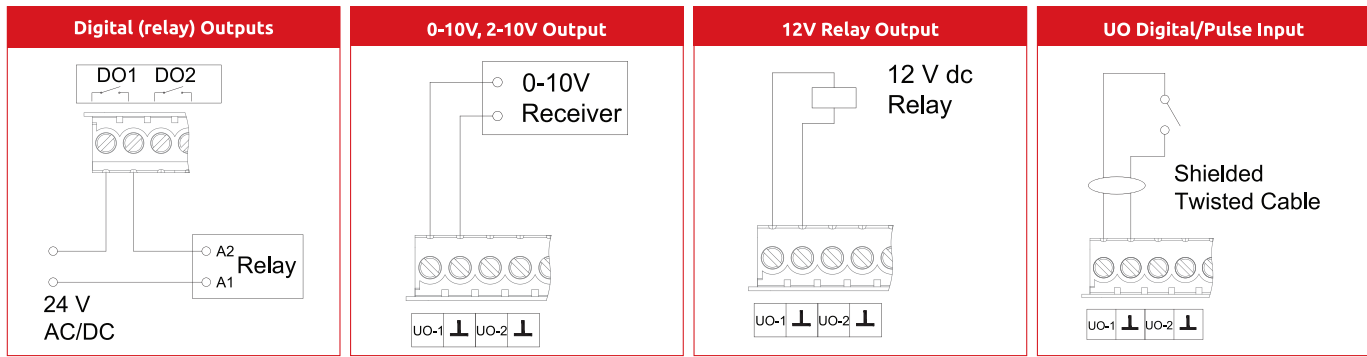
Dipswitch 1 to 6: Modbus slave ID (binary notation, dipswitch 1 = bit 0, dipswitch 6 = bit 5)
Dipswitch 7 to 9: baud rate
Dipswitch 10: not used



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

WIRING

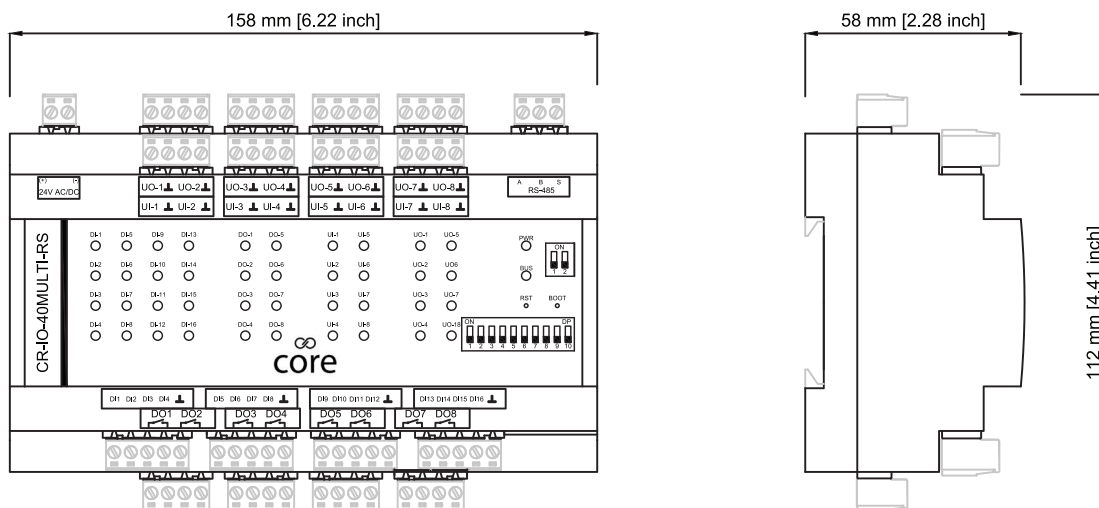
RS485 BMS	Power Supply (AC)	Power Supply (DC)	
Passive Sensor Input	0-10V, 2-10V Input	0-20mA, 4-20mA Input	Digital/Pulse Input



TECHNICAL SPECIFICATION

Power supply	24 Vac +10%/-15% 50 Hz, 24 Vdc +10%/-15% Current draw – 80mA min, 200mA 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)
Universal Inputs	8x selectable inputs Precision reading ± 0.5 degrees (PT1000), ± 0.1 degrees (NTC), ± 0.1 % full scale (active sensor) 21 bits conversion Passive Inputs: PT1000, NTC10K3A1, NTC10K4A1, NTC1K8, NTC10K CAREL, NTC20K6A1, NTC2.2K, NTC3.3K, NI1000 Active Inputs: 0-10V, 2-10V, 0-20mA, 4-20mA
Digital Outputs	8 x NO/C relays 230 Vac/30 Vdc, 5 A max, 100.000 cycles DO direct, DO reverse
Universal Outputs	8 x universal outputs, precision output $\pm 0.1\%$ of full scale, 12 bits conversion Analog Outputs: 0-10V, 2-10V, maximum current 20 mA Digital Inputs (volt free): DI direct, DI reverse, PULSE (up to 100 Hz) Digital Outputs (0-10Vdc out, max 20mA): DO direct, DO reverse
Interface to BMS	RS485, opto-isolated, max 63 devices supported on the network (all versions), Ethernet (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-40MULTI-RS Technical Drawing



CR-IO-40MULTI-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