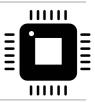
RIDICA



eBMS/IO - Multi IO



Product Overview

The eBMS/IO range of I/O modules are designed for use as local I/O within motor control cabinets or as remote I/O connected via TCP or RS485 Modbus.

The eBMS/IO MULTI I/O module provides a mixture of 4DI, 6DO, 6UI & 2AO. The analogue outputs and 2 digital output channels have appropriate hand-auto override switches and setting pots. Each output has a yellow LED and each digital input has a bi-colour LED which indicates the current status of the connected device.

The IP20 rated module may be plugged together with other modules on standard TS35 DIN rail or direct mounting; the cascadable design allows power and 2-wire RS485 Modbus communications to connect through without any extra wiri sng.

Modbus address setting is by rotary switches which are easily accessible underneath the top cover. A bi- colour LED indicates the communications status.

Connectivity

The Multi IO module has one 2-wire RS485 port supporting a Modbus communications network connection to the JACE® controller.

Modules can be networked via TCP, RS485 or mixed networking.

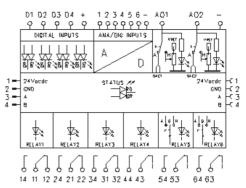
Engineering

Can be engineered via any system with a Modbus interface. Palette files available for Tridium AX and N4

Applications

Typical applications include building automation control systems and monitoring.



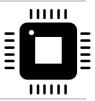


Features

- 4 digital inputs 24v ac or dc
- 6 analogue inputs 0-10v/ 4-20ma / RTD
- 2 analogue outputs 0-10v dc
- ► 6 digital output relays with 8A contacts
- Hand-auto override switches and setting potentiometer on each analogue output
- 24v ac or dc power operation
- Supports RS485 2-wire Modbus Open Communication network
- Failsafe outputs to predefined state on communications failure
- Bi-colour LED for module status information
- Yellow LED indication per output



eBMS/IO - Multi IO Module



input data

number of inputs	4 DI / 6 UI / 6 DO / 2 AO
inputs	voltage current /RTD (PT1000 / NI1000 / 10K3)
number of outputs	6 Digital / 2 Analogue
rated switching voltage	250v ac
rated / inrush current (resistive load)	8A / 12A
maximum total module current	32A
electrical life expectancy at rated / 2A load	1 x 10 ⁵ cycles / 4 x 10 ⁵ cycles @ 23°C & resistive load
mechanical life expectancy	30 x 10 ⁶ cycles

LED status indication:

per digital input	status inputs – green: on or off alarm inputs – red / green
module status	bi-colour: red / green

Communications

bus protocol	Modbus RTU
bus interface	RS485, half duplex, non isolated
bus topology	multidrop
bus speed	19200 bps
bus line termination	integrated termination and biasing resistors

General

module power supply	20v to 28v ac or dc
module current	310ma ac or 125ma dc
operating temperature range	0°C to +50°C
CE marking	EMC directive 2004/108/EC according requirements of EN 55011 and EN 61326-1
mounting	DIN-rail TS35 (35mm x 7.5mm) or direct mounting by M3 fixing
assembly	up to 15 in a row with zero spacing
module size (I x w x h-TS35 / direct)	53mm x 95mm x 60mm / 58mm
insulating material / flammability class	Housing: Noryl. Terminals: Polyamid 6.6 V0 / UL94-V0
protection degree (DIN 40050)	IP 20

e: info@tyrrellproducts.com

t: 01942 732 819