Technical Features

MODEL TYPE	moduleX - Master RS485 Module
Input Voltage	18-24Vdc + 15% (Polarity protection)
Input rated voltage	18-24Vdc
I max.	0.5A
Size	63x72x40 mm
IP protection grade	IP20
Internal protocol	Xbus, up to 16 devices. 10 ms refresh rate
Connection	Pluggable push-in terminal block with screw lock. AWG (mm2): 24-16 (0.2-1.5)
Communications	RS485

DIP switch configuration

DIP switches 1 - 4				
ID	DIP 1	DIP 2	DIP 3	DIP 4
1	OFF / ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	ON	ON	OFF	OFF
4	OFF	OFF	ON	OFF
5	ON	OFF	ON	OFF
6	OFF	ON	ON	OFF
7	ON	ON	ON	OFF
8	OFF	OFF	OFF	ON
9	ON	OFF	OFF	ON
10	OFF	ON	OFF	ON
11	ON	ON	OFF	ON
12	OFF	OFF	ON	ON
13	ON	OFF	ON	ON
14	OFF	ON	ON	ON
15	ON	ON	ON	ON

DIP switches 5 - 6		
Baud rate (bps)	DIP 5	DIP 6
115200	OFF	OFF
57600	ON	OFF
38400	OFF	ON
19200	ON	ON

DIP switch 7	
Mode (Only for MX-8DO Module)	DIP 7
Holding Registers	OFF
Coils	ON

Board Information

Register 30	Firmware version, from 0 to 999. Version is register value / 100
Register 11	Baud rate (0 = 115200, 1 = 57600, 2 = 38400, 3 = 19200)
Register 12	Digital output register mode (0 = Holding register, 1 = Coil)
RUN LED	Status indicator, 2 Hz blink (Green = Stable comm, Red = no modules connected)
RS-485 LED	Modbus RTU indicator (Blue = Valid Modbus RTU request)
End-line resistor switch	120Ω resistor, set to ON if the board is at the end of the line.

Error codes

In case of malfunction, the board reports the error code by flashing the "RUN" LED in red. The LED flashes at a frequency of 5 Hz and the number of flashes corresponds to an error. The signalling sequence is repeated twice in order to allow the user for proper detection.

Error ID	Description
1	Device scan timeout. Check connection between modules
2	Invalid data received. Check integrity of modules
3	CRC missmatch. Check integrity of modules
4	Run data timeout. Check connection between modules

Symbology

⎓	Indicates that the equipment is suitable for direct current only; to identify relevant terminals
~	Indicates that the equipment is suitable for alternating current only; to identify relevant terminals
⎍	To identify the control by which a pulse is started.
⏚	To identify an earth (ground) terminal in cases where neither the symbol 5018 nor 5019 is explicily required.
⊗	To identify the switch by means of which the signal lamp(s) is (are) switched on or off.
CE	CE marking indicates that a product complies with applicable European Union regulations
⚠	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury
ϟ	To indicate hazards arising from dangerous voltages

Technical Support

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