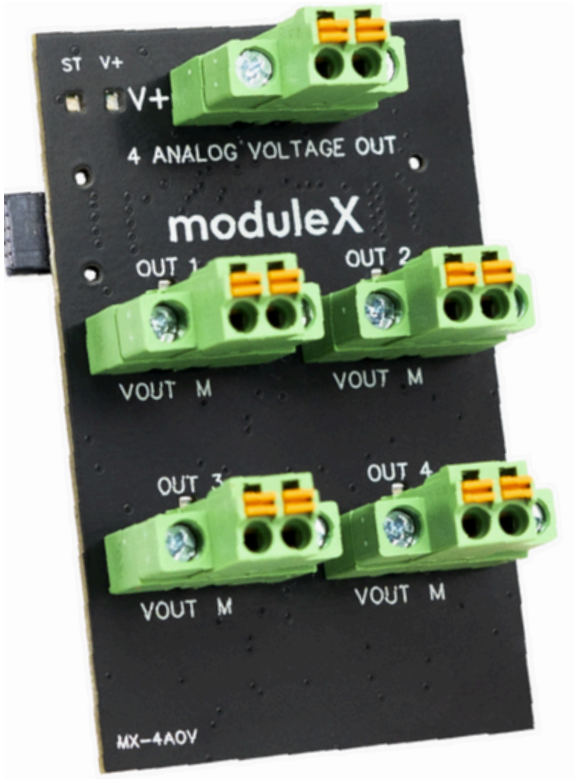
Technical Features

MODEL TYPE	moduleX - MX-4AOV Module
Input Voltage	24Vdc (Polarity protection, galvanic isolation)
Input rated voltage	24Vdc
I max.	0.5A
Output range	0 - 10, max 25 mA per channel
Size	45x72x40 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)
DAC resolution	12 bits



Register map

Digital Outputs - Holding registers

Register	Output	Module Index	Range (decimal)
10	Analog Out 1	1	0 - 4095
11	Analog Out 2	1	0 - 4095
12	Analog Out 3	1	0 - 4095
13	Analog Out 4	1	0 - 4095
14	Analog Out 1	2	0 - 4095
15	Analog Out 2	2	0 - 4095
16	Analog Out 3	2	0 - 4095
17	Analog Out 4	2	0 - 4095
18	Analog Out 1	3	0 - 4095
19	Analog Out 2	3	0 - 4095
20	Analog Out 3	3	0 - 4095
21	Analog Out 4	3	0 - 4095
22	Analog Out 1	4	0 - 4095
23	Analog Out 2	4	0 - 4095
24	Analog Out 3	4	0 - 4095
25	Analog Out 4	4	0 - 4095
26	Analog Out 1	5	0 - 4095
27	Analog Out 2	5	0 - 4095
28	Analog Out 3	5	0 - 4095
29	Analog Out 4	5	0 - 4095

Additional Information

The **analog outputs** are associated to **holding registers**, each analog channel corresponding to a single register. Starting from register 10, each module occupies 4 registers. Due to buffer limitations, the last available register is register 29, allowing a maximum of 5 analog modules in the same cluster.

LED codes

The "ST" status LED serves to indicate the board's status, with the capability to illuminate in three distinct colors

LED color	Current mode
Green	The module is in operating mode, 3Hz blinck indicates Xbus data
Yellow	The module is in init mode, awaiting initialization from the master
Red	The board has an error, check table below

Error codes

In case of malfunction, the board reports the error code by flashing the "ST" 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 bad CRC
2	No space in I/O cluster. More than 16 modules are connected
3	Bad setup frame. Invalid setup frame data
4	Run data bad CRC. Operating frame has invalid CRC

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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