Technical Features

MODEL TYPE	Module X - MX-4AI Module
Input Voltage	24Vdc (Polarity protection, galvanic isolation)
Input rated voltage	24Vdc
I max.	2A
Input range	0 - 10 / 0 - 20 mA
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)
ADC resolution	15 bits
Channel type	Voltage / current selectable via DIP switch

Register map

Analog Inputs - Input registers			
Register	Input	Module Index	Range (decimal)
10	Analog In 1	1	0 - 32767
11	Analog In 2	1	0 - 32767
12	Analog In 3	1	0 - 32767
13	Analog In 4	1	0 - 32767
14	Analog In 1	2	0 - 32767
15	Analog In 2	2	0 - 32767
16	Analog In 3	2	0 - 32767
17	Analog In 4	2	0 - 32767
18	Analog In 1	3	0 - 32767
19	Analog In 2	3	0 - 32767
20	Analog In 3	3	0 - 32767
21	Analog In 4	3	0 - 32767
22	Analog In 1	4	0 - 32767
23	Analog In 2	4	0 - 32767
24	Analog In 3	4	0 - 32767
25	Analog In 4	4	0 - 32767
26	Analog In 1	5	0 - 32767
27	Analog In 2	5	0 - 32767
28	Analog In 3	5	0 - 32767
29	Analog In 4	5	0 - 32767

Additional Information

The **analog inputs** are associated to **input 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

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