## Technical Features

| | |
|---|---|
| MODEL TYPE | moduleX - MX-4AOV Module |
| Input Voltage | 12-24Vdc +/- 15% (Polarity protection, galvanic isolation) |
| Input rated voltage | 12-24Vdc |
| 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.<br>AWG (mm2): 24-16 (0.2-1.5) |
| DAC resolution | 12 bits |
| Channel Response Time | 20 ms |

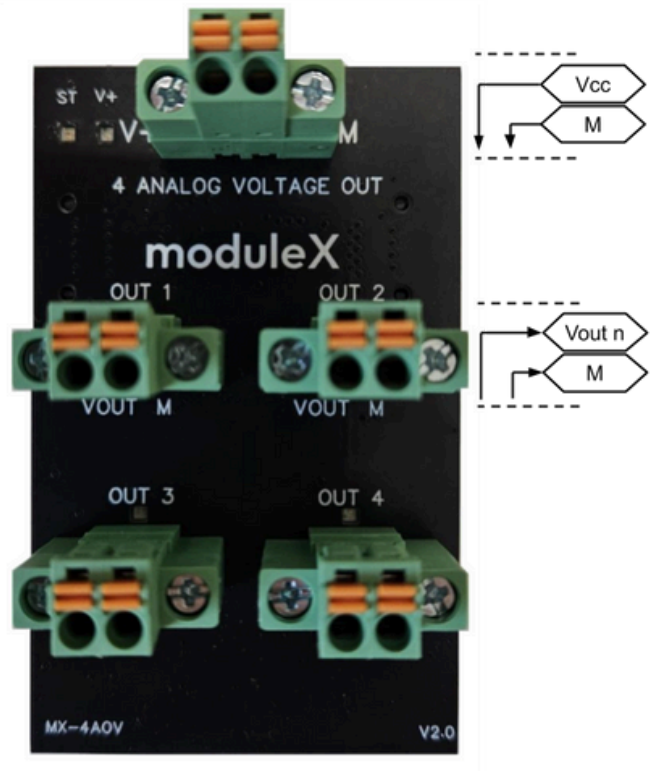
## Register map

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

You can contact with us using the best channel for you:

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