

ANALOGUE I/O

- ANALOGUE ACQUISITION MODULES
- UP TO 8 INPUTS AND 8 OUTPUTS



FEATURES

| INPUTS | AI-02UI | AI-08TC | AI-04RT | AI-08HL | AI-08DP | A0-08HL | A0-08DP |
|---|---|-----------|-------------|---------|------------------------|-----------|--------------------|
| Number of inputs | 2 | 8 | 4 | 8 | | | |
| Type of inputs (see table on next page for input ranges) | Universal: RTD, TC, mA, mV, V, potentiometer | TC, mV | RTD, TC, mV | mA, V | mA, V dual polarity | -- | |
| Accuracy | 0.1% | | | | | | |
| OUTPUTS | | | | | | | |
| Number of outputs | | | | | | 8 | |
| Type of outputs | | | | | | mA, V | V dual polarity |
| FUNCTIONAL | | | | | | | |
| Modbus protocol | -- | Available | | | -- | Available | -- |
| CANOpen protocol | Available | | | | | | |
| Serial communication | RS 485, with dual connector RJ45 | | | | | | |
| Resolution | 16 bit | | | | | | |
| Isolation class | 2500 V | 800V | | | | | |
| Acquisition time | 20 ms | 60 ms | 120 ms | 10 ms | 20 ms | | |
| GENERAL | | | | | | | |
| Power supply | 24Vdc (-15...+25%) (50/60Hz) | | | | | | |
| Power consumption | 4 VA max. | | | | | | |
| Dimensions / Weight | 110 x 66 mm, depth 76 mm / 220 g approx. | | | | | | |
| Mounting | On OMEGA DIN A rail | | | | | | |
| Connections | 2 terminal blocks with 11 poles 5.0mm, with screws or CLAMP terminals | | | | | | |
| Protection degree | IP20 (terminal block) | | | | | | |
| Operating / storage temperature | 0... 55°C / -20... 85°C (32... 131°F / -4... 185°F) | | | | | | |
| Operating humidity | 5... 95% RH% without condensation | | | | | | |
| Conformity | EN 50081-2, EN 50082-2, EN 61010 | | | | | | |

HOW TO ORDER

| CODE | PROTOCOL | DESCRIPTION | CHANNELS | |
|-------------------------|----------|-----------------------------------|----------|---|
| | | | I | O |
| ANALOGUE INPUTS | | | | |
| IO-CBAIo2UI | CANOpen | RTD, Tc, mA, mV, V, potentiometer | 2 | |
| IO-CBAIo4RT | CANOpen | RTD, Tc, mV | 4 | |
| IO-MBAIo4RT | Modbus | RTD, Tc, mV | 4 | |
| IO-CBAIo8TC | CANOpen | TC, mV | 8 | |
| IO-MBAIo8TC | Modbus | TC, mV | 8 | |
| IO-CBAIo8HL | CANOpen | mA, V unipolar | 8 | |
| IO-MBAIo8HL | Modbus | mA, V unipolar | 8 | |
| IO-CBAIo8DP | CANOpen | V dual polarity | 8 | |
| IO-MBAIo8HLTo- | Modbus | mA, V unipolar, Conformal coating | 8 | |
| ANALOGUE OUTPUTS | | | | |
| IO-CBAOo8HL | CANOpen | mA, V unipolar | | 8 |
| IO-MBAOo8HL | Modbus | mA, V unipolar | | 8 |
| IO-CBAOo8DP | CANOpen | V dual polarity | | 8 |

ACCESSORIES

| CABLES | |
|---------------------------------|--|
| APS2 LOCALBUS76 | CABLE WITH CONNECTOR RJ45 L=14 CM FOR RS485 |
| APS2 LOCALBUS152 | CABLE WITH CONNECTOR RJ45 L=22 CM FOR RS485 |
| APS2 LOCALBUS500 | CABLE WITH CONNECTOR RJ45 L=50 CM FOR RS485 |
| POWER ADAPTORS | |
| APS2 ALDR75-24 | POWER ADAPTOR 3.2 A |
| APS2 ALDR12024 | POWER ADAPTOR 5 A |
| PLUGS | |
| APS2 SPINAM11 | PLUG WITH 11 POLE CLAMP TERMINALS |
| APS2 SPINAV11 | PLUG WITH 11 POLE SCREW TERMINALS |
| TERMINALS AND CONNECTORS | |
| APS2 TB211 | TERMINAL BLOCK |
| APS2 TERMCAN | CONNECTOR RJ45 WITH CAN TERMINAL |

INPUT RANGE

| RANGE | |
|-------------------|--|
| Thermocouples | LJ (-200... +600°C/-328... +1112°F), T (-200... +400°C/-328... +752°F), K (-200... +1370°C/328... +2498°F), N (0... +1300°C/328... +2372°F), S (0... +1760°C/ 32... +3200°F), R (0... +1600°C/32... 2912°F) |
| Thermoresistances | PT100/PT1000 (-200... +600°C/-328... +1112°F) |
| Linear signals | 0...100 mV, 0...1000 mV, ±100mV, ±1000mV ±50 mV, ±300, ±1.0 V mA, (0,4... 20 mA), V (0...10V) |
| Potentiometer | 100...10K Ω |

DIMENSIONS

