

Inteli AI09/1

Datasheet



Order code: I-IO9/1

Extension/Peripheral Module

Product description

- ▶ Peripherals dedicated to expand number of I/Os of the main ComAp controller
- ▶ Supports wide range of sensor types and characteristics
- ▶ Connection with the main ComAp controller over CAN bus (up to 200 m length)
- ▶ Extension modules are compatible with
 - InteliSys^{NT} BaseBox, InteliSys^{NTC} BaseBox, InteliSys GAS, InteliSys^{NTC} Hybrid, InteliSys^{NT} BaseBox Marine
 - InteliGen^{NT}, InteliGen^{NT} BaseBox, InteliGen^{NTC} BaseBox Marine
 - InteliMains^{NT}, InteliMains^{NT} BaseBox, InteliMains^{NTC} BaseBox
 - InteliDrive DCU Marine, InteliDrive DCU

Key features

- ▶ Analog output: 1 channel
 - Voltage 0 - 10 V DC
 - Current 0 - 20 mA
 - PWM

- ▶ Analog input: 9 channels
 - Supported sensors:
 - Pt 1000
 - Ni 1000
 - Thermocouple J, K, L
 - 0 - 2400 Ω
 - ± 65 V DC
 - ± 75 mV DC

Certificates and standards

This product is CE compliant.

- ▶ EN 60068-2-6 ed.2:2008
- ▶ EN 60068-2-27 ed.2:2010
- ▶ EN 60068-2-30, May 2000
- ▶ EN 60068-2-64
- ▶ EN 61010-1:2003

Marine certifications:

DNV, GL, LR, BV, RMR, CCS, RINA

All certificates and standards are available on:

<https://webstore.iec.ch/publication/4243>

CE

C  US

Technical data

Power supply

Power supply	8 to 36 V DC
Power consumption	35 mA @ 24 V ± 100 mA at 8 V

Analog inputs (not electric separated)

AIN1 - AIN4: Voltage	range: ±65 V (nominal) (measurement up to ±70 V) accuracy: 0-65 V ±0,25 % of actual value ±120 mV Measurement is not galvanic separated from power supply, but IN- is not interconnected with GND – there is floating measurement.
AIN5 - AIN8: Voltage	range: ±75 mV (nominal) (measurement up to ±80 mV) accuracy: ±0,1 % of actual value ± 75 µV. Galvanic separated from power supply
AIN9: Resistance	range: 0-2400 Ω accuracy: resistance: ±0,5 % of actual value ±4 Ω_ Pt1000, Ni1000 ± 2,5°C. It is not galvanic separated from power supply.

Operating conditions

Operating temperature	-30°C to +70°C
Storage temperature	-40°C to +80°C
Operation humidity	95% w/o condensation
Vibrations	5-25 Hz, ±1.6 mm, 25-100 Hz, a = 4 g
Shocks	a = 200 m/s ²

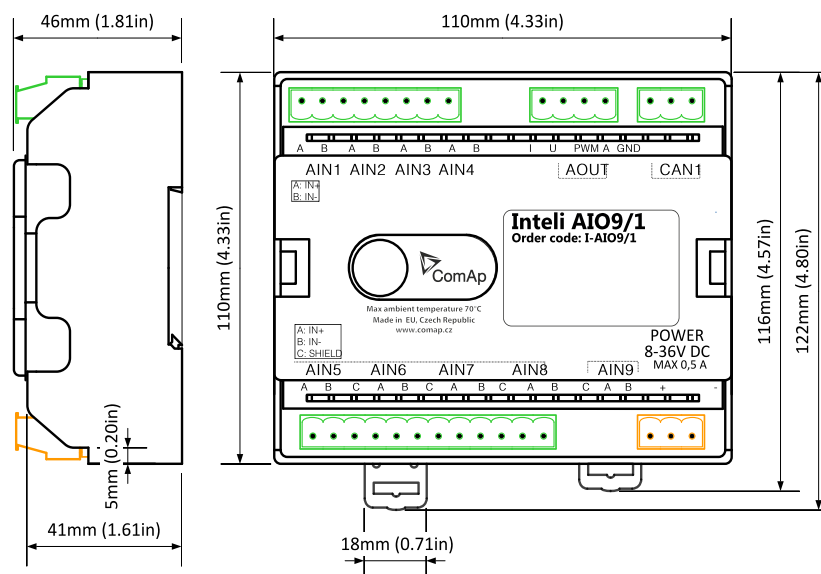
Analogue outputs

Voltage	range: 0 – 10 V , accuracy: ±20 mV ±0,5 % of actual value ±50 mV
Current	Range 0 - 20 mA , accuracy: ±100 µA ±1 % of actual value ±200µA, (Rmax 500 Ω)
PWM	Level 5 V, adjustable freq 200 Hz-2.4 kHz (15 mA Imax.)

General information

Protection	IP20
Galvanic separation	CAN bus is galvanic separated from the measurement and power supply

Dimensions, terminals and mounting



Note: The unit is mounted on DIN rail (35 mm/1.38 in).

