

Inteli AIO9/1

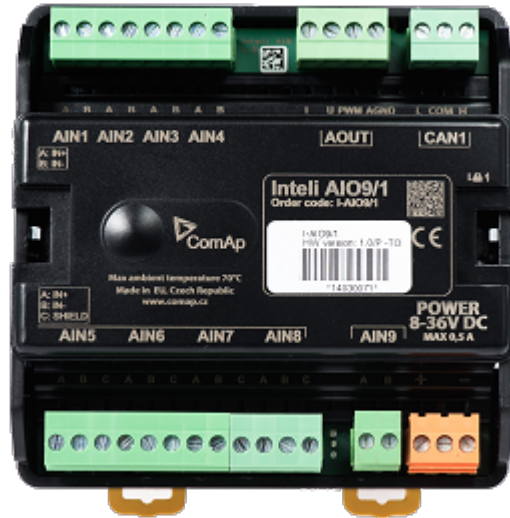
Datasheet

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
 - » InteliSysNT BaseBox, InteliSysNTC BaseBox, InteliGenNT, InteliGenNT BaseBox, InteliGenNTC BaseBox, InteliMainsNT, InteliMainsNT BaseBox, InteliMainsNTC BaseBox, InteliSysNTC Hybrid, InteliSys GAS, InteliDrive DCU Marine, InteliDrive DCU Industrial, InteliSysNT BaseBox Marine, InteliGenNT BaseBox Marine.
 - » InteliNeo 6000, InteliNeo 5500, InteliMains 1010, all controllers from InteliLite 4 family, InteliLite(3) AMF25, InteliLite(3) AMF20, InteliLite(3) MRS16, Inteli(3) MRS 11, InteliGen4 200, InteliGen 500 G2, InteliGen 500, InteliGen 1000

Key features

- > Analog output: 1 channels
 - » Voltage 0 - 10 V DC
 - » Current 0 - 20 mA
 - » PWM



Order code: I-AIO9/1

Extension/Peripheral Modules

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

Application overview

- > Peripheral extension module for the controllers
 - » CAN bus connectivity
 - » Connects analog sensors (via Analog IN ± 75 mV)
 - » Connects measurement unit (via Analog IN ± 65 V)
 - » Connects resistive sensor RPTC (via Analog IN 0 - 2400 Ω)
 - » Connects analog control unit (via Analog OUT)

Technical data

Power supply

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

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
Heat radiation	2 W

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.

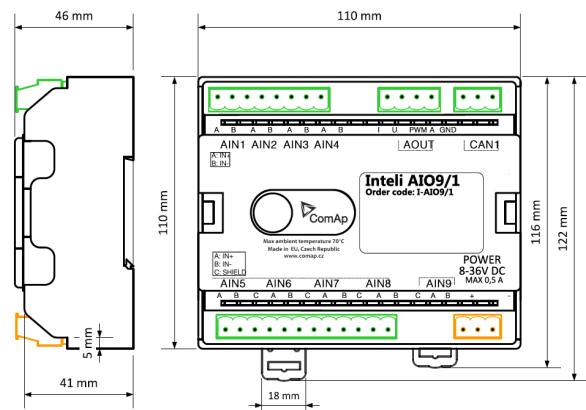
Analog outputs

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 I _{max} .)

General information

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

Dimensions, terminals and mounting



Note: Unit is mounted on 35 mm DIN rail.

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/>

