

Inteli AIN8TC

Datasheet



Order code: I-AIN8TC

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 input: 8 channels
- ▶ Supported sensors:
 - Thermocouple J, K, L [°C]
 - Thermocouple J, K, L [°F]
- ▶ Cold junction compensation is available

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>



Technical data

General information

Protection	IP20
Galvanic separation	CAN bus is galvanic separated from the measurement and power supply. All analog inputs are galvanic separated from power supply and CAN bus. Analog inputs are not galvanic separated between channels.

Analog inputs (not galvanic separated)

Voltage	range: ± 100 mV accuracy: $\pm 0,1\%$ of actual value + ± 100 μ V ($\pm 3^\circ\text{C}$)
Internal sensor for measuring cold junction	$\pm 1^\circ\text{C}$ in temperature range $-20^\circ\text{C} \div +70^\circ\text{C}$

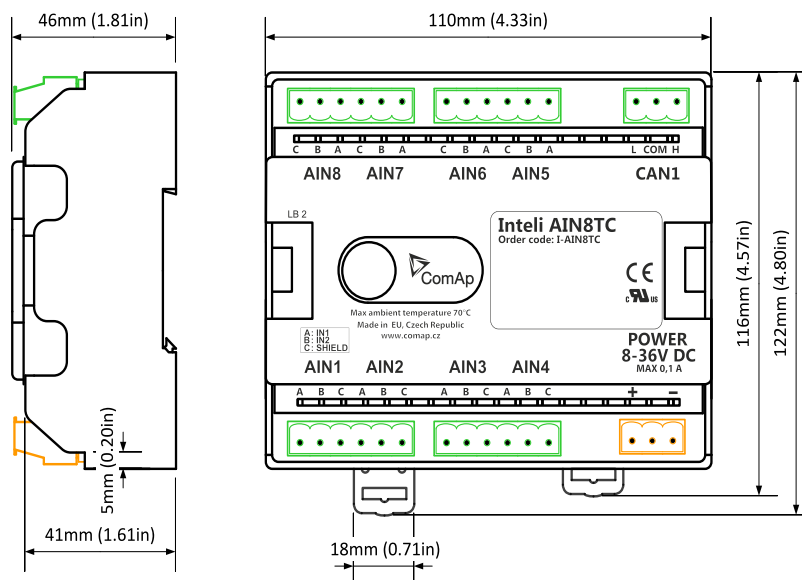
Power supply

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

Operating conditions

Operating temperature	-30°C to $+70^\circ\text{C}$
Storage temperature	-40°C to $+80^\circ\text{C}$
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

Dimensions, terminals and mounting



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

