

# Inteli AIN8

## 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
  - InteliSys<sup>NT</sup> BaseBox, InteliSys<sup>NTC</sup> BaseBox, InteliSys GAS, InteliSys<sup>NTC</sup> Hybrid, InteliSys<sup>NT</sup> BaseBox Marine
  - InteliGen<sup>NT</sup>, InteliGen<sup>NT</sup> BaseBox, InteliGen<sup>NTC</sup> BaseBox Marine
  - InteliMains<sup>NT</sup>, InteliMains<sup>NT</sup> BaseBox, InteliMains<sup>NTC</sup> BaseBox
  - InteliDrive DCU Marine, InteliDrive DCU

### Key features

- ▶ Analog input: 8 channels
- ▶ Impulse/RPM input: 1 channel
- ▶ Supported sensors:
  - Pt100, Pt1000
  - Ni100, Ni1000
  - (0)4 - 20 mA

- ± 20 mA
- 0 - 250 Ω, 0 - 2400 Ω, 0 - 10 kΩ
- ± 1 V DC, 0 - 10 V DC, 0 - 5 V DC
- Lambda probe

### Certificates and standards

|  |  |
|--|--|
| This product is CE compliant. <ul style="list-style-type: none"> <li>▶ EN 60068-2-6 ed.2:2008</li> <li>▶ EN 60068-2-27 ed.2:2010</li> <li>▶ EN 60068-2-30, May 2000</li> <li>▶ EN 60068-2-64</li> <li>▶ EN 61010-1:2003</li> </ul> | <br><br> |
| Marine certifications:<br>DNV, GL, LR, BV, RMR, CCS, RINA  |  |
| All certificates and standards are available on:<br><a href="https://webstore.iec.ch/publication/4243">https://webstore.iec.ch/publication/4243</a>  |  |



Order code: I-AIN8

### Extension Peripheral Modules

## Technical data

### Power supply

|                   |                                   |
|-------------------|-----------------------------------|
| Power supply      | 8 to 36 V DC                      |
| Power consumption | 35 mA a @ 24 V ± 100 mA<br>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<br>Hz, a = 4 g |
| Shocks                | a = 200 m/s <sup>2</sup>                |

### Analog inputs (not galvanic separated)

|            |   |
|------------|---|
| Voltage    | range: 0-10 V, accuracy: ±0,25 %<br>of actual value ±25 mV  |
| Current    | range: ±20 mA, accuracy: ±0,25 %<br>of actual value ±50 µA  |
| Resistance | range: 0- 10 kΩ<br>accuracy: resistance: ±0,5 % of<br>actual value + ±2 Ω_ Pt100,<br>Pt1000, Ni100, Ni1000 ±2,5°C |

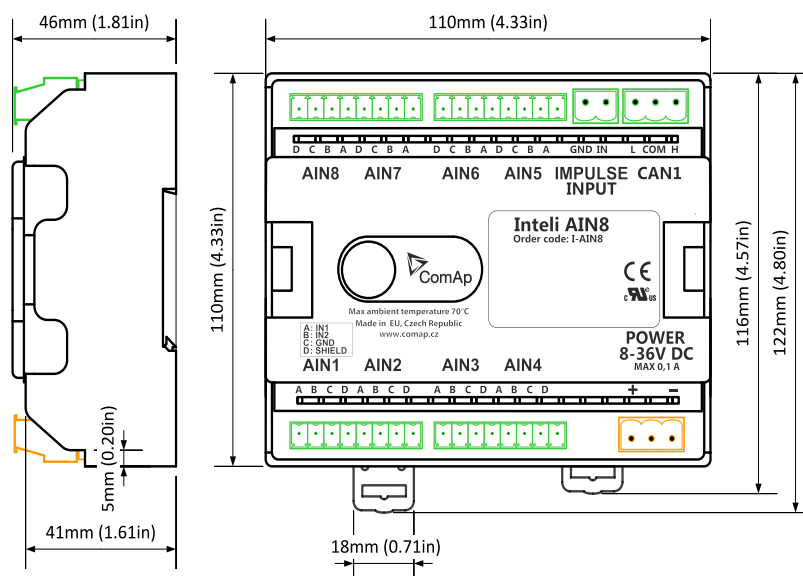
### Impulse / RPM input

|         |  |
|---------|--|
| RPM     | level of signal: 2(6) Vpk-pk ± 70 Vpk-pk<br>frequency range 4 Hz ± 10 kHz  |
| Impulse | Measurement of pulses by norm DIN<br>43864 and norm IEC 62053-31-<br>equipment class A. for flow meter<br>pulses: $V_{Hmax} = 30 V$ , $I_{max} = 30 mA$ ,<br>$T_{onmin} = 10 ms$ , $T_{offmin} = 10 ms$ , OC |

### General information

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

## Dimensions, terminals and mounting



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

