

12 temperature sensor inputs

IEX-2 temperature measurement module with 12 Pt1000 inputs



Model number:	AIR-12
Mounting:	DIN rail, 3M
Dimensions:	53x117x58mm
Compatible sensors:	
Pt1000 temperature probe	S-PT1000

Applications

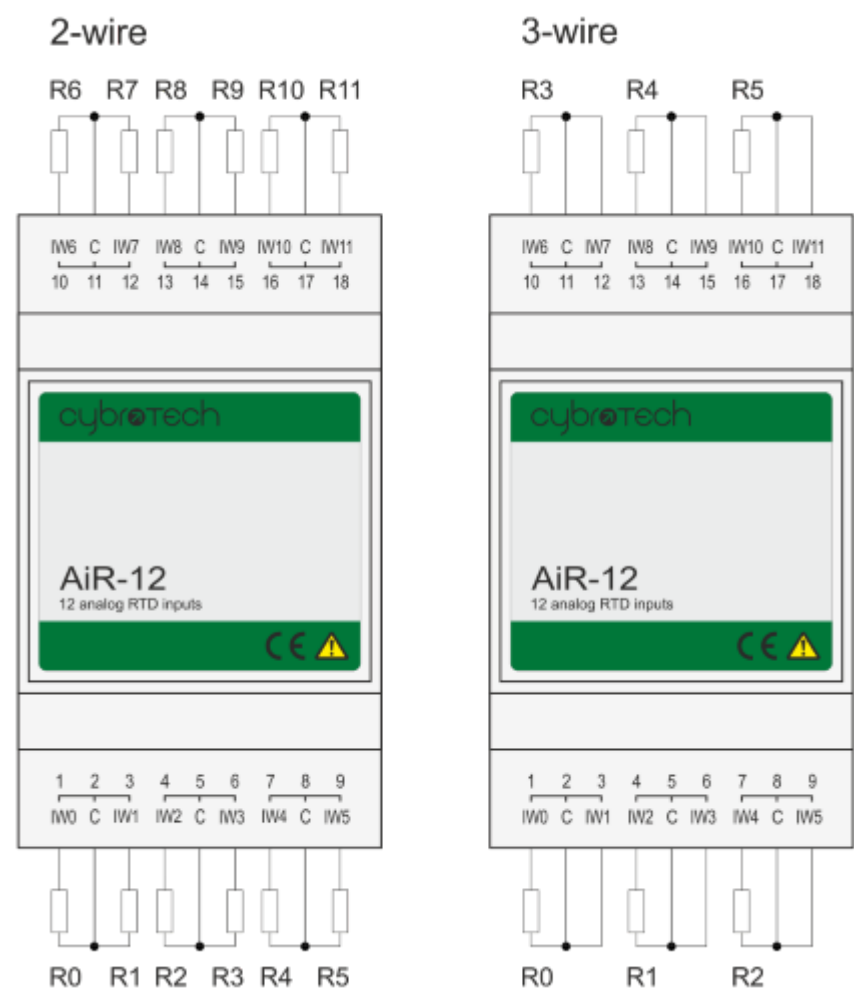
- temperature measurements

Technical specification

Number of i/o points	12 analog inputs
Input type	software selectable (common for all inputs):
	- Pt100/1000 (DIN751), measuring range -100..300°C
	- Ni100/1000 (DIN43760), measuring range -50..160°C
	- Ni100/1000 (Landis & Gyr), measuring range -50..160°C
	- potentiometer 0..2000 ohm
Connection type	2-wire or 3-wire
Wire resistance	20 ohm max. (3-wire mode)
A/D converter	V/f conversion with auto calibration

Accuracy	0.1% of measuring range
Resolution	14 bits (input modes with 0.1% accuracy)
	12 bits (input modes with 0.5%/1% accuracy)
Sensor current	0.2mA (each sensor)
Temperature drift	+/-0.01%/°C of measuring range
Scan time	30ms..1120ms, depends on input mode
Integration time	20ms or 60ms, depends on input mode
Calibration reference	150.00 ohm, 1500.0 ohm
Accuracy, scan time	software selectable, depends on input mode
Power supply	24V (19..28V), 50mA
Galvanic isolation	1kV between digital and analog circuit no isolation between channels
IEX-2 baud rate	20, 50, 100, 250, 500kbps, auto selectable
Operating conditions	0..50°C, 0..85% rh non-condensing
Mounting	DIN rail (35mm)
Dimension	53x117x58mm
Weight gross	160g
Enclosure protection	IP20
Level of ambient pollution	2
Standards	EN 61131-1, EN 61131-2, EN 50090-2-2

Wiring



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