

# AiR-12

Resistive inputs (RTD) 12xPt100/1000, Ni100/1000 or potentiometer



Model number:	<b>AiR-12</b>
Mounting:	DIN rail

## Features

- IEX-2 module
- 12 RTD inputs

## Technical specification

Input type	Pt100/1000 (DIN751) auto selectable, measuring range -100..300°C
	Ni100/1000 (DIN43760) auto selectable, measuring range -50..160°C
	Ni100/1000 (Landis & Gyr) auto selectable, measuring range -50..160°C
	potentiometer 0..2000ohm
Sensor current	190uA (each sensor)
Wire resistance	20ohm max. (3-wire mode)
Resolution	14 bits in 0.1% mode 12 bits in 0.5% and 1% mode
Temperature drift	+/-0.01%/°C of measuring range
Scan time	30ms..980ms, depends on input mode
Calibration reference	150.00ohm, 1500.0ohm
Power supply	24V (18..28V), 50mA
Galvanic isolation	1kV between digital and analog circuit no isolation between chanel
Operating conditions	0..50°C, 0..85% rh non-condensing
Weight	160g
Degree of protection	IP20
Level of ambient pollution	2
Standards	EN 61010-1, EN 61010-2-201, EN 61131-2

## Terminals

2-wire		3-wire		INPUT MODE				
mode	no.ch	connection	accuracy	scan time	integration time	auto calibration		
0	12	2-wire	0.1%	1120ms	60ms	each cycle		
1	12	2-wire	1%	480ms	20ms	each cycle		
2	12	2-wire	5%	360ms	20ms	every 10 minutes		
3	6	2-wire	0.1%	700ms	60ms	each cycle		
4	6	2-wire	1%	300ms	20ms	each cycle		
5	6	2-wire	5%	180ms	20ms	every 10 minutes		
6	4	2-wire	0.1%	560ms	60ms	each cycle		
7	4	2-wire	1%	240ms	20ms	each cycle		
8	4	2-wire	5%	120ms	20ms	every 10 minutes		
9	2	2-wire	0.1%	420ms	60ms	each cycle		
10	2	2-wire	1%	180ms	20ms	each cycle		
11	2	2-wire	5%	60ms	20ms	every 10 minutes		
12	1	2-wire	0.1%	350ms	60ms	each cycle		
13	1	2-wire	1%	150ms	20ms	each cycle		
14	1	2-wire	5%	30ms	20ms	every 10 minutes		
15	6	3-wire	0.1%	1120ms	60ms	each cycle		
16	3	3-wire	0.1%	700ms	60ms	each cycle		
17	2	3-wire	0.1%	560ms	60ms	each cycle		
18	1	3-wire	0.1%	420ms	60ms	each cycle		

## Bus Connection Cable



- The product includes a 2.5 cm RJ9-to-RJ9 bus cable (Order code: CAD-P0) for connection to controllers, allowing the units to be linked together.
- Longer cable versions are available under order codes CAD-Px.

## Dimensions

