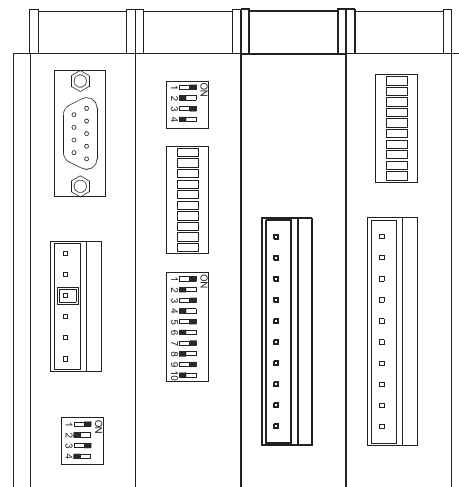# AD-NI8

8 Analogue Inputs for Ni1000 Temperature Sensors

- **8 analogue inputs for Ni1000 temperature sensors**

- **10 bits converter**

- **Self-stacking connection to the AD-CPU167 unit, DIN rail mounting**

TECHNICAL DATA

Number of inputs	8 with common analogue ground
Galvanic separation	No
A/D converter resolution	10 bits
1 bit resolution	0.3 °C *)
Repeated measurement accuracy	0.3 % **)
Max. number of modules	10 ***)
Module position in system	1. to 10. position in configuration behind the AD-CPU167
Max. internal source consumption (24 V DC)	60 mA
Input signal connection	WAGO 231 cage clamp connectors, code protection against mistaking
Mounting	35 mm DIN rail
Operating temperature	0 to 70 °C
Max. ambient humidity	< 95 % non-condensing
Weight	200 g
Dimensions (w × h × d)	25 × 104 × 96 mm

*)   At 0 °C

**)   Provided that the sensor leads resistance is lower than 1 Ohm
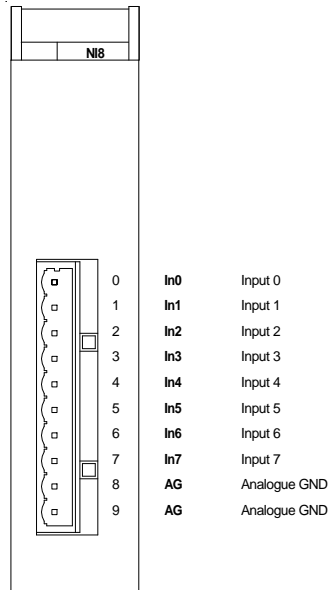
***)   Combination AD-AI5 + AD-NI5 is possible

Note: Combination as 1 × AD-AI5 + 5 × AD-AI8 or 1 × AD-NI5 + 5 × AD-AI8 are possible. AD-NI8 modules could be combined with AD-AI8 modules without any restriction (limit 10 modules and position had to be kept).
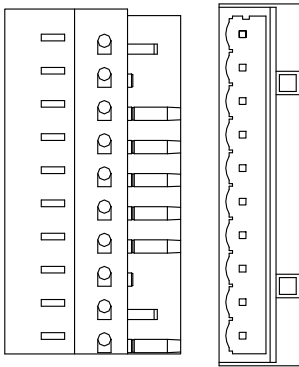
ORDERING INFORMATION

AD-NI8	8 analogue inputs module for Ni1000 temperature sensors, WAGO231-310 connector, data sheet, warranty card

MODULE DESCRIPTION AND SIGNAL ASSIGNMENT

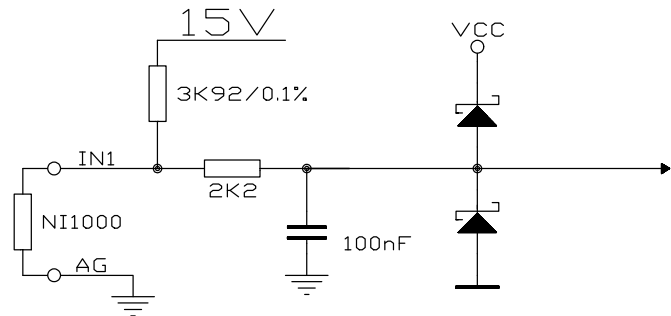|			
0	**In0**	Input 0	
1	**In1**	Input 1	
2	**In2**	Input 2	
3	**In3**	Input 3	
4	**In4**	Input 4	
5	**In5**	Input 5	
6	**In6**	Input 6	
7	**In7**	Input 7	
8	**AG**	Analogue GND	
9	**AG**	Analogue GND	

Note: The AG terminals are internally connected with ⊥ (the GND terminal) at the AD-CPU167 power supply connector.

CONNECTOR CODING

INPUT CIRCUIT WIRING

15 V

3K92/0.1%

IN1

2K2

NI1000

AG

100nF

VCC

WIRING EXAMPLES

Temperature sensor Ni1000

In7

AG