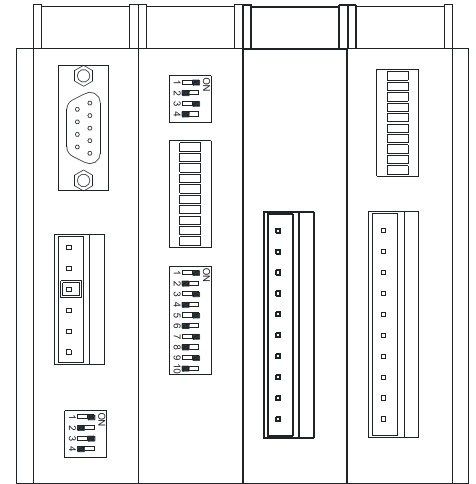


# AD-AI8

8 analogue inputs 5 V / 10 V / 0 mA to 20 mA

- 8 analogue inputs with internal jumpers for individual configuration
- Input measuring ranges 0 V to 5 V, 0 V to 10 V, 0 mA to 20 mA
- 10 bits converter to AD-CPUW2
- Self-stacking connection to the AD-CPUW2 unit, 35 mm DIN rail mounting



## TECHNICAL DATA

<b>Inputs</b>	8 with common analogue ground
Input type	0 V to 5 V DC / 0 V to 10 V DC / 0 mA to 20 mA DC
Galvanic separation	No
A/D converter resolution	10 bits
Input time constant	20 ms
Input ranges	Individually adjustable
voltage/1 bit resolution	0 V to 5 V / 4.88 mV
current/1 bit resolution	0 V to 10 V / 9.77 mV 0 mA to 20 mA / 19.53 µA
Max. input voltage (voltage range)	50 V
Max. input current (current range)	45 mA
General absolute accuracy	0.25 %
Repeated measurement accuracy	0.15 %
<b>Power supply</b>	Internal
Max. internal source consumption	10 mA at 24 V DC
<b>Others</b>	
Max. number of modules in configuration	10
Module position in system	1. to 10. position in configuration behind AD-CPU
Signal connection	WAGO 231 cage clamp connectors, code protection against mistaking
Cover protection rate	IP20
<b>AD-AI8</b> operating temperature	0 °C to 70 °C
<b>AD-AI8/I</b> operating temperature	-40 °C to 70 °C
Max. ambient humidity	< 95 % non-condensing
Mounting	35 mm DIN rail
Weight	200 g
Dimensions (w × h × d)	(25 × 104 × 96) mm

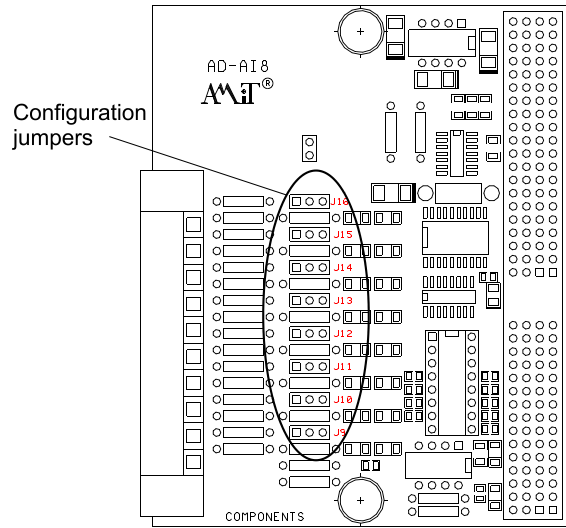
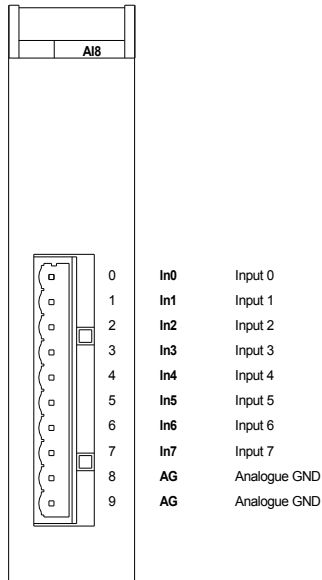
Note: Combination as 1 × AD-AI5 + 5 × AD-AI8 or 1 × AD-AI5 + 5 × AD-AI8 are possible.

## ORDERING INFORMATION

<b>AD-AI8</b>	8 analogue inputs module, WAGO 231-310 connector, data sheet, warranty card
<b>AD-AI8/I</b>	8 analogue inputs module with temperature range -40 °C to 70 °C, WAGO 231-310 connector, data sheet, warranty card

## MODULE DESCRIPTION AND SIGNAL ASSIGNMENT

## CONFIGURATION JUMPERS



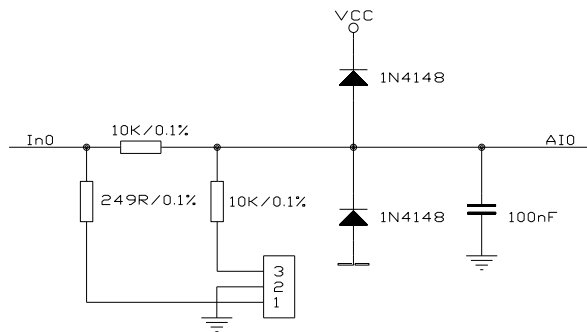
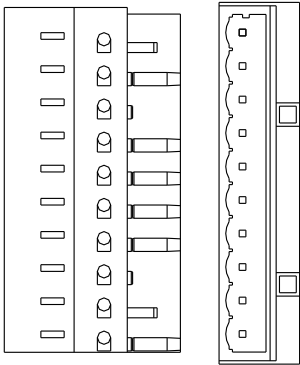
Note: The AG terminals are internally connected with  $\perp$  (the GND terminal) at the AD-CPUW2 power supply connector.

Input measuring range:

0 V to 5 V		-
0 V to 10 V		2-3
0 mA to 20 mA		1-2

## CONNECTOR CODING

## INPUT CIRCUIT WIRING



## WIRING EXAMPLES

