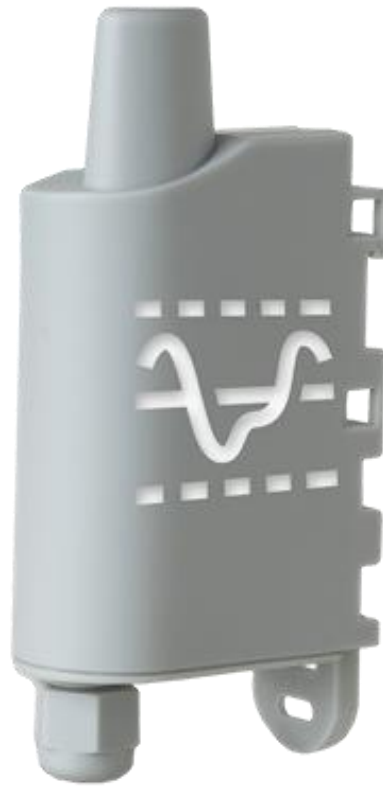


Charakterystyka techniczna Adeunis LoRaWAN Analog PWR (ARF8200AA)



Parameters	Value
Power supply	5-36V DC
Maximal power	90mA
Working temperature	-25°C / +70°C
Dimensions	105 x 50 x 27mm
Weight	49g
Casing	IP 67
Radio standards	EN 300-220, EN 301-489, EN 60950
LoRaWAN zone	863-870 kHz
Max power transmission	14 dBm
Applicative port (downlink)	1

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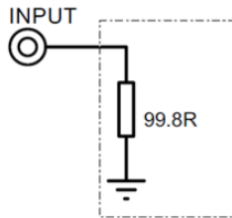
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1.4.2 Physical interface characteristics

1.4.2.01 4-20mA interfaces

The schematic diagram of the 4-20mA interfaces is the following:



Absolute maximum values		Units
Minimum input current	0	mA
Maximum input current	30	mA

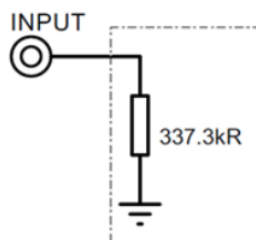
Electrical characteristics		Units
Minimum input current	4	mA
Maximum input current	20	mA
Equivalent input impedance	99,8 (+/-0,1%)	Ω

12-bit analog input resolution

Values higher than the absolute maximum would damage the product.

1.4.2.02 0-10V interfaces

The schematic diagram of the 0-10V interfaces is the following:



Absolute maximum values		Units
Minimum input voltage	0	V
Maximum input voltage	15	V

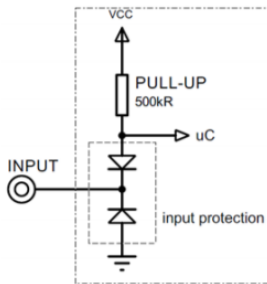
Electrical characteristics		Units
Minimum input voltage	0	V
Maximum input voltage	10	V
Equivalent input impedance	337,3 (+/-0,2%)	k Ω

12-bit analog input resolution

Values higher than the absolute maximum would damage the product.

1.4.2.03 Digital interfaces

The schematic diagram of the digital interfaces is the following:



Absolute maximum values		Units
Minimum input voltage	- 0,7	V
Maximum input voltage	+50	V

Electrical characteristics		Units
Minimum input voltage	0	V
Maximum input voltage	24	V
Equivalent input resistance	500	kΩ
Input frequency	10	Hz
High input level current consumption	0	μA
Low input level current consumption	6	μA

1.4.2.04 Power supply

External power supply requirement		Unit
Minimum input voltage	6	V
Maximum input voltage	+24	V
Minimum power required	2,5	W

Sensor

Current transducer

- Operating temperature: -25°C / +60°C
 - Fire resistance: UL94-V0
 - Available in 50 A et 100 A
 - Precision +/- 1%
 - About 70 cm of cable
 - Version 100 A: cable 16 mm
 - Version 50 A: cable 10 mm

Analog

- Operating temperature range: -25°C to + 70°C
 - Replaceable battery
 - Dimensions: 105 x 50 x 27 mm
 - Case: IP67 (IP68 on request)
- Zone: Sigfox: RC1 / LoRaWAN™: EU863-870 / WM-Bus: 868

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Current (μ V)	50A transducer (A)	100 A transducer (A)
0	0	0
2 000 000	10.00	20.00
4 500 000	22.50	45.00
6 389 100	31.95	63.89
8 640 050	43.20	86.40
10 000 000	50	100

Technical information on current transducer

Parameters	50 A	100 A	Unit
Nominal input	600	120	A
Max input detection	650	160	A
Nominal output	1000	40	mA
Precision	2	2	+ - %
Linearity	<0.2	\leq 0.2	%
Max sampling resistance	5	10	Ω
Operating temperature	-25 / +60		$^{\circ}$ C
Storage temperature	-30 / +60		$^{\circ}$ C
Fire resistance	ULV94-V0		

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