

AirTM-100 | Pulse converter



Technical parameters	AirTM-100S	AirTM-100L	AirTM-100NB
Power supply			
Battery power:	1x 3.6V LS 14500 Li-SOCl ₂ AA		
Battery life by frequency *:			
1x 10 minutes	0.4 years	7.1 years	1.9 years
1x 60 minutes	2.1 years	10.6 years	3.2 years
1x 12 hours	8.5 years	11.7 years	3.6 years
1x 24 hours	9.9 years	11.8 years	3.6 years
External power supply:	5 – 12V DC (on terminal)		
Supply voltage tolerance:	+10 %; -15%		
Standby consumption:	0.2 mW		
Transmitting power consumption:	250 mW	150 mW	850 mW
Setting			
Setting:	With a message from the server using setting pins, SET button, programming cable		
Alarm Detection:	message to the server		
Battery status view:	only when the battery is powered by a message on the server		
Control			
Control:	button SET Tamper		
Digital inputs			
Inputs:	IN1, IN2		
Supported sensors for energy measurements:	LS (LED sensor)** MS, WS (magnetic sensor)** SO (Contact, open collector)		
Communication			
Protocol:	Sigfox	LoRa	NB-IoT
Transmitter frequency:	RCZ1 868 MHz	868 MHz	LTE Cat NB1***
Range in open space:	Approx. 50 km ^x	Approx. 10 km ^x	Approx. 30 km ^x
Transmission power (max.):	25 mW / 14 dBm	25 mW / 14 dBm	200 mW / 23 dBm
Other parameters			
Working temperature:	-30...+60°C (Pay attention to the operating temperature of batteries)		
Storage temperature:	-30...+70°C		
Operating position:	any		
Mounting:	glue / screws		
Protection degree:	IP65		
Connecting External Power:	terminals, wires 0.5 – 1 mm ²		
Connection of the sensor:	terminals, wires 0.5 – 1 mm ²		
Cable grommet:	M16 x 1.5 for cable ø max. 10 mm		
Dimension:	182 x 62 x 34 mm	136 x 62 x 34 mm	136 x 62 x 34 mm
Weight:	100 g (without battery)		

* Values are calculated under ideal conditions and may vary depending on the type of sensor connected

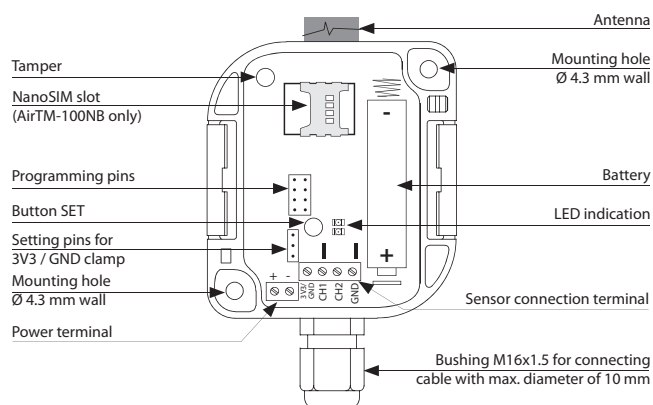
** Not included in the package

*** Multiple frequency bands of B1 / B3 / B5 / B8 / B20 / B28

^x Depending on network coverage

- The Pulse converter counting quantities of pulses from the energy meters (electricity, water, gas).
- The Pulse converter is designed for use on existing gauges even without impulse output „S0“ (gauge must support sensing).
- AirTM-100 converts gauge consumption using sensors - LS (LED sensor), WS (magnetic sensor for water meter), MS (magnetic sensor) or pulse output.
- For each power meter it is necessary to have one Pulse converter AirTM-100.
- With the wireless solution and Sigfox / LoRa / NB-IoT communication, it can communicate instantly to your chosen location and be operated immediately.
- Data is sent to the server from which it can be subsequently displayed as a smartphone, application, or Cloud notification
- Anti-sabotage: If access to the device is unauthorized, a message is immediately sent to the server.
- Power supply: 5-12 V DC or 1x 3.6 V batteries SAFT.
- In the case of external power, the battery is automatically disconnected and serves as backup power.
- Protection degree IP65.

Device description



Function

1. S0 - pulse counting S0
Recommended accessories: cable for S0 output
2. **Energy measurement** - pulse counting from active sensor LS, MS, WS
Recommended accessories
 - LS (LED sensor): is particularly suitable for power meters that support LED pulse sensing
 - MS (magnetic sensor): is particularly suitable for gas meters that support magnetic sensing.
 - WS (magnetic sensor for water meter): it is particularly suitable for water meters that support magnetic sensing.

Sigfox Ready Certification



Certification ID for AirTM-100S Pulse Transmitter:
P_0094_B301_01