



- In conjunction with the output contact of the respective monitoring relay, it serves to monitor voltage, current or levels.
- Using a universal feature provides a quick solution to keep track of the current status of the supervised equipment or technology unit and eliminates the financial loss caused by the malfunction of the device
- Communication on the Sigfox or LoRa network.
- Data is sent to the server from which it can be subsequently displayed as a smartphone, application, or Cloud notification.
- Li-Ion battery pack for 24 hour backup.
- The package includes an internal antenna AN-I, in case of locating the converter in a metal switchboard, you can use the external antenna AN-E for better signal reception.
- 1-MODULE, DIN rail mounting.

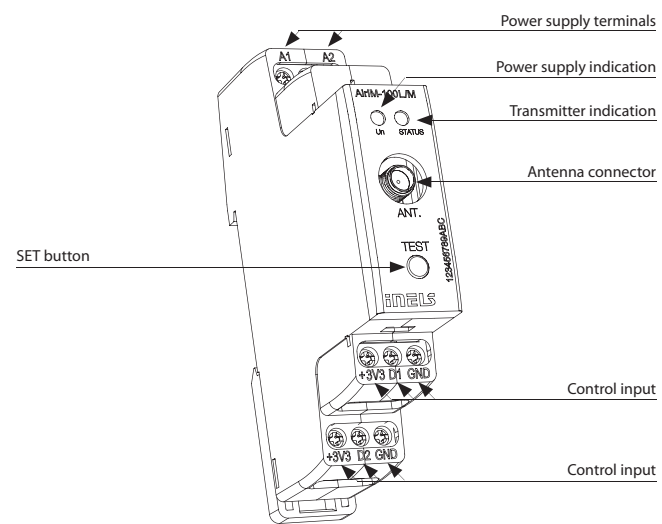
Technical parameters	AirIM-100S/M	AirIM-100L/M
Supply voltage:	85 - 230 V AC (50 - 60 Hz)	85 - 230 V AC (50 - 60 Hz)
Supply voltage tolerance:	+10 % / -25 %	
Input:	12 - 48 V DC	
Backup power:	battery Li-Ion	
Battery life:	24 hour	
Battery charging:	7 hour	
<b>Setting</b>		
Setting:	With a message from the server / button SET	
Alarm Detection:	message to the server	
Battery status view:	only when the battery is powered by a message on the server	
<b>Indication</b>		
- red LED:	broadcast / D1	
- green LED:	power supply / D2	
- without indication:	Backup battery power / no power	
<b>Input</b>		
Digital input:	D1, D2	
Supported sensors for energy measurements:	LS (LED sensor)* MS, WS (magnetic sensor)* SO (Contact, open collector)	
<b>Communication</b>		
Protocol:	Sigfox	LoRa
Transmitter frequency:	RCZ1 868 MHz	868 MHz
Range in open space:	Approx. 50 km**	Approx. 10 km**
Transmission power (max.):	25 mW / 14 dBm	25 mW / 14 dBm
<b>Other parameters</b>		
Working temperature:	-20 ... + 50 °C	
Operation position:	any	
Mounting:	DIN rail EN 60715	
Protection degree:	IP20 from the front panel	
Overvoltage category:	III.	
Pollution degree:	2	
Max. cable size (mm <sup>2</sup> ):	max. 1x 2.5, max. 2x 1.5 / with a hollow max. 1x 2.5	
Connection of the sensor:	terminals, wires 0.5 - 1 mm <sup>2</sup>	
Output for antenna:	SMA connector ***	
Dimension:	90 x 17.6 x 64 mm	
Weight:	93 g	

\* Not included in the package.  
 \*\* Depending on network coverage.  
 \*\*\* Max Tightening Torque for antenna connector is 0.56 Nm.

Function

- S0 - pulse counting S0**
  - For each channel, a different function can be set independently.
  - Recommended accessories: cable for S0 output
- Energy measurement - pulse counting from active sensor LS, MS, WS**
  - For each channel, a different function can be set independently.
  - 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.
- Flood Detection - Flood Sensor**
  - Recommended accessories: flood sensor FP-1
- HTM2500LF - Temperature and Humidity Sensor Measurement HTM2500LF**
  - Recommended accessories: HTM2500LF sensor
- Alarm function - check the contact - switch**
  - For each channel, a different function can be set independently.
- Alarm function - check the contact - switch**
  - For each channel, a different function can be set independently.
- NC function - this function must be set on an unallocated channel (if only one channel is connected).**
  - For each channel, a different function can be set independently.

Device description



Accessories

A summary and overview of all types of monitoring relays can be found in the technical catalogue **Modular electronic devices**: <https://www.elkoep.com/catalogs-and-brochures>