AirIM-100/M | Universal input (for DIN rail)



Technical parameters	AirlM-100S/M		AirIM-100L/M	
Supply voltage:	85 - 230 V AC		85 - 230 V AC	
	(50 - 60 Hz)	12 - 48 V DC	(50 - 60 Hz)	12 - 48 V DC
Supply voltage tolerance:	+10 % / -25 %			
Input:	3 VA			
Backup power:	battery Li-Ion			
Battery life:	24 hour			
Battery charging:	7 hour			
Setting				
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			
Indication				
- red LED:	broadcast / D1			
- green LED:	power supply / D2			
- without indication:	Backup battery power / no power			
Input				
Digital input:	D1, D2			
Supported sensors for energy	LS (LED sensor)*			
measurements:	MS, WS (magnetic sensor)*			
	SO (Contact, open collector)			
Communication				
Protocol:	Sig	fox	Lol	Ra
Transmitter frequency:	RCZ1 8	68 MHz	868 MHz	
Range in open space:	Approx.	50 km**	Approx.	10 km**
Transmission power (max.):	25 mW /	′ 14 dBm	25 mW / 1	4 dBm
Other parameters				
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 ²):	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 ²			
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.

- 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-lon 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.



Accesories

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

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Function

- 1. S0 pulse counting S0
- For each channel, a different function can be set independently.
- Recommended accessories: cable for S0 output
- 2. 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.
- 3. Flood Detection Flood Sensor Recommended accessories: flood sensor FP-1
- 4. HTM2500LF Temperature and Humidity Sensor Measurement HTM2500LF Recommended accessories: HTM2500LF sensor
- 5. Alarm function check the contact switch • For each channel, a different function can be set independently.
- 6. Alarm function check the contact switch • For each channel, a different function can be set independently.
- 7. 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.