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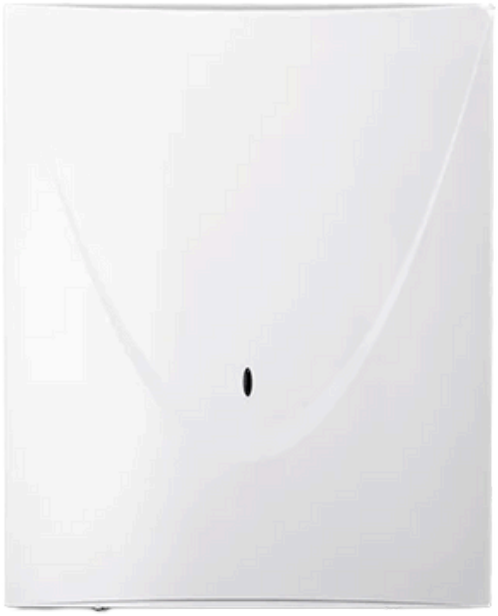
ECLIPSE

BATTERY WIRELESS M-BUS GATEWAY



ECLIPSE is a battery-powered universal data concentrator designed for reading water meters, heat meters, heat cost allocators, gas meters and electricity meters that send data via radio in accordance with the wireless M-Bus or OMS protocol.

All data received by the concentrator is transmitted according to a flexible transmission schedule to the telemetry cloud via the GSM network using 5G/4G or NBIoT technology.

Performance

ECLIPSE is equipped with a latest-generation communication modem and an energy-efficient computing unit that allows for uninterrupted operation for up to 11 years without the need to replace the battery, hub management, diagnostics and service.

Reliability

The high-sensitivity 868 MHz radio receiver allows for reading measuring devices installed in hard-to-reach places. The high-power 868 MHz transmitter allows for remote communication with meters for the purposes of reconfiguration, alarm clearing or diagnostics.

Flexibility

Data transmission from the concentrator can take place via a secure HTTPS or MQTT protocol in accordance with the reporting schedule, allowing data to be collected and sent according to individual customer needs. ECLIPSE ensures readings at least once a day, 365 days a year.

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Safety

Built-in sensors that detect when the enclosure is opened or removed from its base enable quick detection of vandalism or theft.

Ergonomics

Easy to install and configure – mounting to the floor and configuring the device takes just a few minutes and requires no specialist knowledge or tools.

Aesthetics

The casing, designed with aesthetic interiors in mind and made of high-quality plastic, makes ECLIPSE blend in perfectly with its surroundings and can be installed in stairwells, galleries, etc.

PARAMETRY TECHNICZNE	
Radio frequency/power	868 MHz to 14 dBm
Supported radio protocols	W-Mbus EN13757-4, OMS
Supported modes	T1, C1, S1
Maximum number of WMBus devices	2000 devices
Supported GSM technologies	5G, 4G, NBIoT
Configuration and diagnostics	Locally (USB/Android app) or remotely
Communication protocols	MQTT, HTTPS
SIM card size	Mini SIM
Radio sensitivity	-105dBm
Power supply	3.6V / 38000 mAh lithium battery (optional 85-305 VAC/100-430 VDC, max. 15 W)
Battery life	11 years
User interface	RGB LED button: Reset (device reset) button: Action (GSM communication test, WMBus communication test, return to factory settings)
Antennas	Internal
Dimensions (width/length/height)	127 mm / 48 mm / 164 mm
Weight	530 g
Protection class	IP20
Storage temperature	from -20°C to +65°C
Operating temperature	from 0°C to +55°C