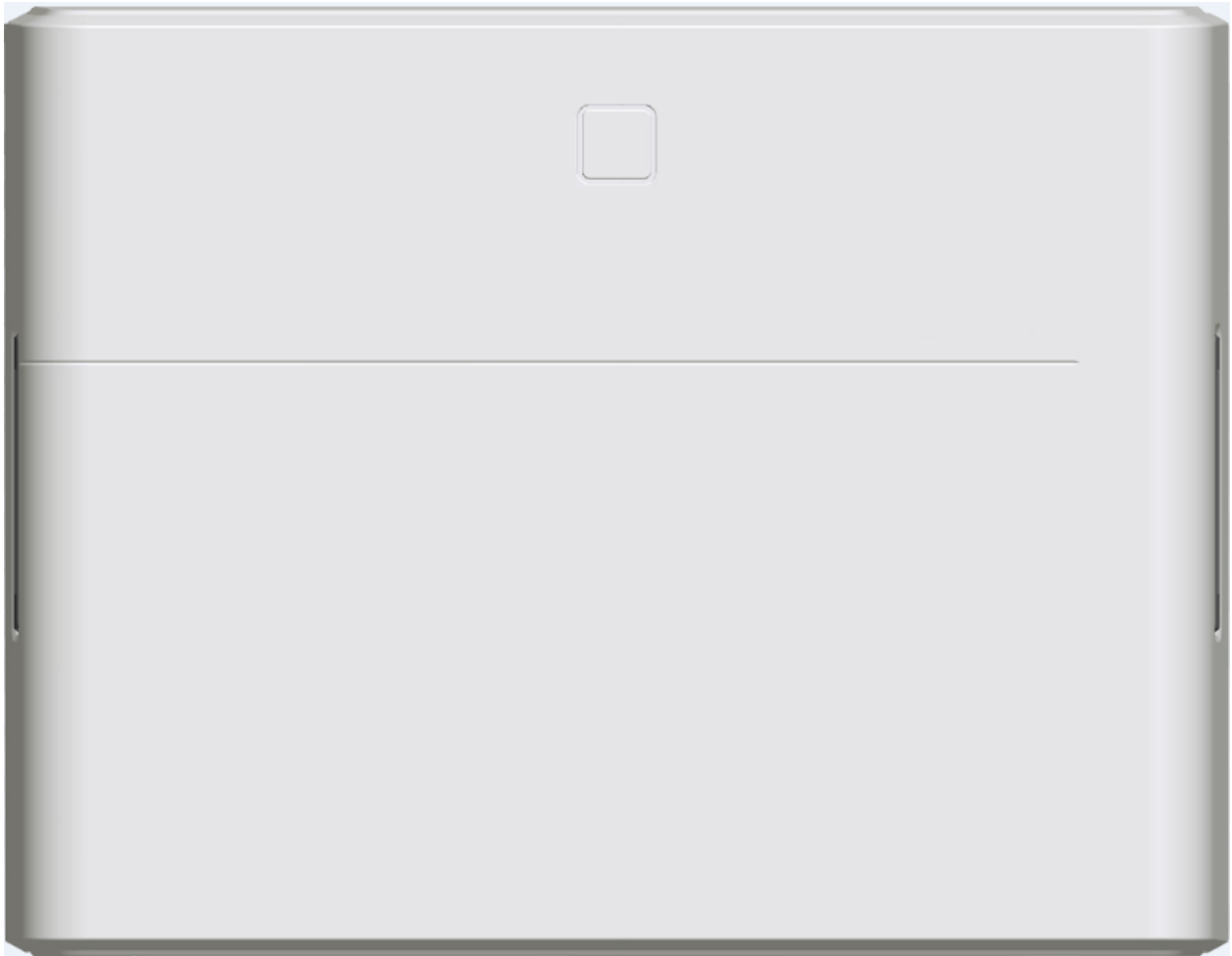




Radio Gateway System



- **Open system, according to wireless M-Bus and OMS**
- **Number of devices in battery mode: 1000**
- **Number of devices in mains and Power over Ethernet (PoE) operation: 1500**
- **High density wireless M-Bus receiver (LTE disturbance filter)**
- **Compatible with all Micronics radio devices**
- **Data collect / transfer: fortnightly (battery mode)**
- **Battery lifetime: 5 years**

Technical data:

Gateway

Interfaces (standard)	USB wireless M-Bus GPRS	(configuration); (data collect); (data forwarding, firmware update)
Interfaces (optional) either factory-mounted or as field-mountable modules	Ethernet M-Bus Master	(data forwarding, firmware update); (data collect, 10 devices)
Antennas wireless M-Bus and GSM	internal; optional: external antenna, field-mountable module	
Configuration	configuration software "Device Monitor"; text message (SMS)	
Number of devices in battery mode	1000	
Number of devices in mains and PoE operation	1500	
Data storage	non-volatile FLASH memory	
Filter	whitelist for desired devices (wildcard possible); blacklist for not-desired devices (wildcard possible)	
Output file format	CSV; XML; RAW	
Data transmission	e-mail dispatch; FTP upload	
AMR software (optional)	automated data preparation: merges multiple input files; filter of double datasets;	
Ambient temperature	°C	- 20 to 60 (battery-powered); - 20 to 30 (mains, PoE-powered)
Protection class	IP65 (GSM)	

Power supply

Orderable or retrofittable options are battery or mains supply or power over ethernet.

Battery for submetering (visible location)	V	6; lithium battery
Battery lifetime (two batteries)	years	5 (limited data read-outs and transmissions)
Mains for monitoring and submetering	V	100-240 (0,25 A), primary; 5 (2 A), secondary
Electrical feed (no plug)	m	2
Power over ethernet (PoE) for monitoring and submetering	V	5

The following chart shows which power supply can be used with the particular hardware function:

	GSM/GPRS	Ethernet	M-Bus
Battery	yes	no	no
Mains power supply	yes	yes	yes
Power over Ethernet	no	yes	yes



Wireless M-Bus

Frequency	MHz	868
Protocol		wireless M-Bus according to EN 13757-3, -4
Selectable modes		T1; C1; S1
Telegrams		short telegram for AMR (according to OMS 2.0.0, 3.0.1, 4.0.2); long telegram for walk-by read-out
Encryption		AES: Advanced Encryption Standard; 128 bit: key length

GSM/GPRS

Frequencies	MHz	850, 900, 1800, 1900
Class		quad-band GPRS class 10
SIM chip slot		mini-SIM, size 2FF
Embedded SIM chip		yes
Output power		class 4 (2 W, 33 dBm) @ 850, 900 MHz; class 1 (1 W, 30 dBm) @ 1800, 1900 MHz
Sensitivity	dBm	-107
GPRS data speed	kByte/s	22

Weights

Gateway (standard, without batteries)	kg	0,520 + packaging
Battery pack (standard two per Gateway)	kg	0,240 + packaging
Mains power supply (option)	kg	0,220 + packaging

Dimensions

H x W x D	mm	250 x 194 x 42
-----------	----	----------------

