

Engelmann **Connect**

Gateway GPRS

Data collector for wireless M-Bus devices



Fulfillment of the interoperability required
by the HKVO

Seamless integration into the Engelmann AMR
system landscape

Simple remote parameterization

Flexibility during installation and operation

Flexible in use – strong in performance! With the Engelmann gateway, you are ideally equipped for the digital future of consumption data recording.

The **GPRS gateway** is a battery-operated data collector for easy remote readout of wireless M-Bus devices for consumption data recording. Thanks to its wide range of configuration options, it can be individually adapted to your needs and fits seamlessly into the Engelmann AMR system landscape, which impresses with its modularity and allows you to use the gateway independently of the system. You can have the consumption data sent in various formats to an FTP server or to an email address. Optionally, the **GPRS gateway** can be combined with the Engelmann platforms and the Configuration App to form a digital trio. This all-in-one solution from Engelmann makes commissioning and (data) management of AMR systems child's play.



Features

- Data collector for easy remote readout
- Installation mode – success control directly on site
- Flexible setting of transmission and reception times
- Remote parameterization from your desk
- Battery operation for location-independent installation
- Up to 1000 devices in battery operation
- Up to 1500 devices in mains operation
- Battery capacity of up to 10 years
- Optional integration into Engelmann platforms

General

Interfaces (standard)	USB (configuration), wireless M-Bus (data collect), GSM/GPRS (data forwarding, firmware update)
Antennas wireless M-Bus and GSM/GPRS	internal, optional: external antennas, can be retrofitted in the field
Configuration	configuration software (Device Monitor), text message (SMS), GMP (Gateway Management Platform)
Data storage	non-volatile FLASH memory
Filter	whitelist for desired devices (wildcard possible) blacklist for not-desired devices (wildcard possible)
Forwarding data format	CSV; XML; RAW
Data transmission	e-mail dispatch; FTP upload
Optional: Data Service Platform (DSP)	Data Platform for providing and bundling all received consumption data including device status
Optional: Configuration App (CAPP)	Android App for quick and easy setting of all important installation parameters and for direct detection of devices immediately during assembly on site
Ambient temperature in the field	°C -20 to 60 (battery operation) -20 to 30 (mains operation)
Devices	up to 1000 (battery operation) up to 1500 (mains operation)
Protection class	IP65

Power supply

Orderable or retrofittable options are battery or mains supply.

Battery supply for submetering (visible location)	V	6; lithium battery
Mains supply for monitoring and submetering	V	100 – 240 (0.25 A), primary 5 (2 A), secondary
Supply cable (no connector plug)	m	2

Lifetime: 1 battery

Number of devices	Format	SMS	Frequency of data collects	Frequency of data transmission	Lifetime
400	RAW	daily 15 min	3 x a month	3 x a month	10 years
1000	RAW	daily 15 min	2 x a month	2 x a month	10 years
400	CSV	daily 15 min	2 x a month	2 x a month	5 years
200	XML	daily 15 min	2 x a month	2 x a month	5 years

Lifetime: 2 batteries

Number of devices	Format	SMS	Frequency of data collects	Frequency of data transmission	Lifetime
400	RAW	daily 15 min	7 x a month	7 x a month	10 years
1000	RAW	daily 15 min	5 x a month	5 x a month	10 years
1000	CSV	daily 15 min	2 x a month	2 x a month	5 years
400	XML	daily 15 min	2 x a month	2 x a month	5 years

Wireless M-Bus

Operating frequency	MHz	868
Protocol	wireless M-Bus according to EN 13757-3,-4	
Selectable modes	S1 / T1 (Frame Format A) C1 (Frame Format B)	
Telegrams	conform to OMS 2.0.0, 3.0.1, 4.0.2	
Encryption	AES: Advanced Encryption Standard; 128 bit: key length	
Highly sensitive receiver	LTE interference filtering	

GSM/GPRS

Frequency bands	MHz	850, 900, 1800, 1900
Class	quad-band GPRS class 10	
SIM chip slot	mini-SIM, size 2FF	
SIM-chip-capable	yes	
Output power	class 4 (2 W, 33 dBm) @ 850, 900 MHz class 1 (1 W, 30 dBm) @ 1800, 1900 MHz	
Sensitivity	dBm	-107

Weights

Gateway (standard version, without batteries)	kg	0.520 + packaging
Battery (two per gateway as standard)	kg	0.240 + packaging
Power pack (optional)	kg	0.220 + packaging

Dimensions

H x W x D	mm	250 x 194 x 42
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