

Engelmann Connect

Gateway



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

Technical data:

Gateway

Interfaces (standard)	USB	(configuration);
	wireless M-Bus	(data collect);
	GPRS	(data forwarding, firmware update)
Antennas wireless M-Bus and GSM	internal;	
	optional: external antenna, field- mountable	
Configuration	configuration software "Device Monitor";	text message (SMS)
Number of devices in battery mode	1000	(400 with XML output file format)
Number of devices in mains 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);
	°C	- 20 to 30 (mains powered)
Protection class	IP65	(GSM)

Power supply

Orderable or retrofittable options are battery or mains supply

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;
	V	5 (2 A), secondary
Electrical feed (no plug)	m	2

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

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
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