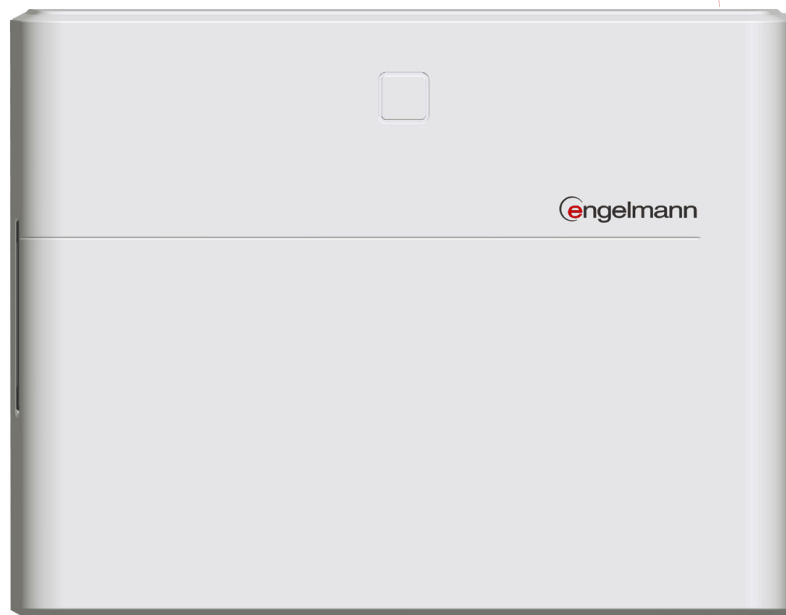


Engelmann Connect

ComStar

Data collector for wireless M-Bus devices



Data center with open system according to wireless M-Bus, OMS and LoRaWAN

Flexible reception of all wireless M-Bus-compliant devices

Versatile use as up to 2500 devices can be processed

Lithium battery with typical capacity of 12 years of operation and 1 year of storage

Flexible in use – strong in performance! With the Engelmann ComStar, you're perfectly equipped for the digital future of consumption data recording.

The **ComStar** is a battery-operated data collector for easy remote reading of wireless M-Bus devices for consumption data recording. Thanks to its wide range of configuration options, it can be individually tailored to your needs and fits seamlessly into your system landscape. Its modularity is impressive and allows you to use the **ComStar** independently of the system.



Features

- Data collector for easy remote readout
- Installation mode – success control directly on site
- Flexible setting of transmission and collect times
- Remote parameterization
- Independent on-site installation due to battery operation
- High number of devices in reception: up to 2500 units
- Lithium battery with typical capacity of up to 12 years of operation and 1 year of storage

General data

Interfaces (standard)	wireless M-Bus (data collection) 4G LTE-M (data forwarding, firmware update) LoRaWAN (data forwarding, firmware update)
Antennas wM-Bus / 4G / LoRaWAN	internal, optional: external antenna, can be retrofitted in the field
Configuration	MQTT / LoRaWAN
Data storage	read-only memory
Filter	whitelist for searched devices blacklist for unwanted devices
Data format forwarding	RAW
Data transmission	MQTT (standard) LoRaWAN (adjustable)
Protection class	IP65

Power supply

Battery type	V	3.6; lithium battery
1x D cell (standard)	Ah	19; battery capacity 12+ years (2 readouts of 30 minutes each per month)
2x D cell (optional)	Ah	38; battery capacity 12 years (1 readout of 30 minutes per day)

wireless M-Bus

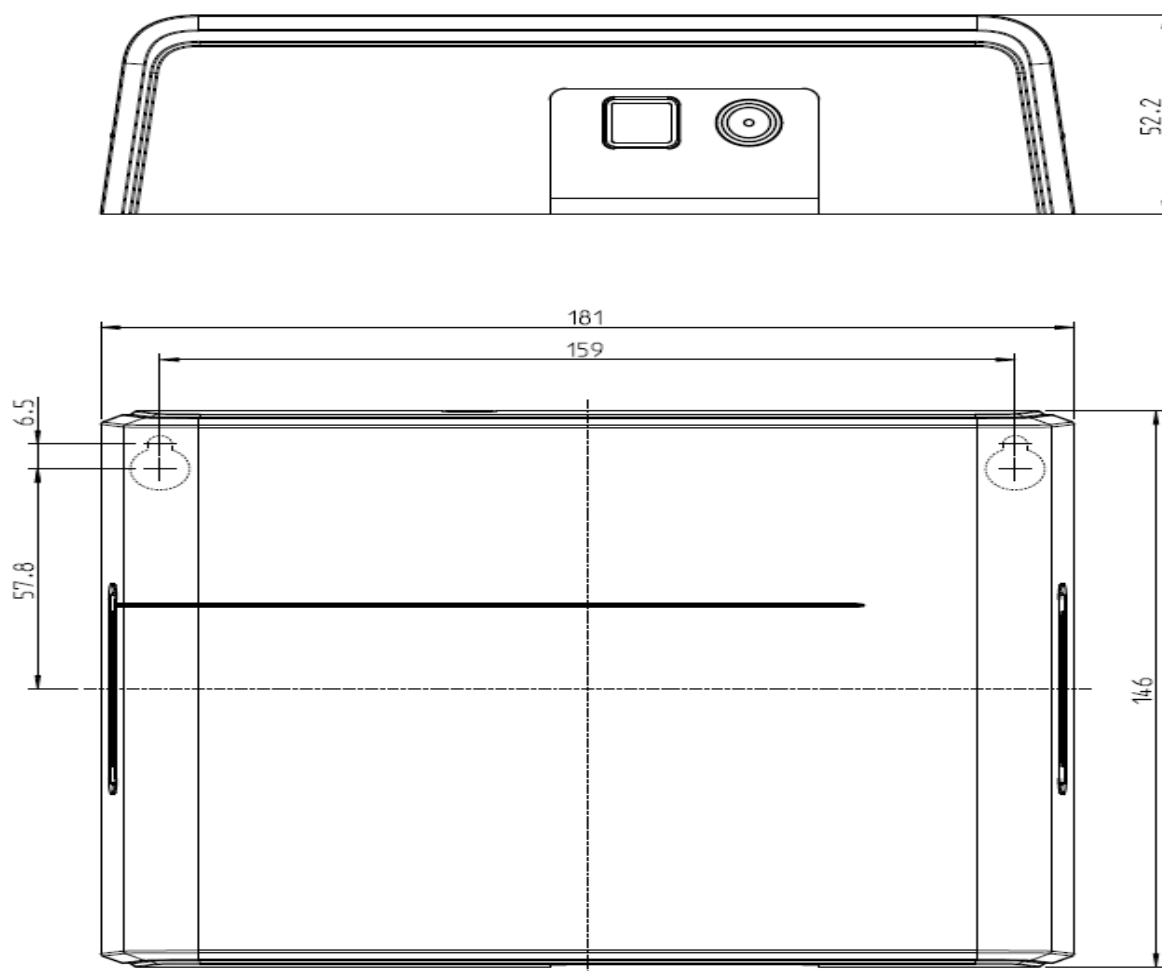
Operating frequency	MHz	868
Protocol	wireless M-Bus in accordance with EN 13757-3,-4	
Optional operating mode	C1 / T1 S1	

4G LTE-M

Frequency bands	MHz	791-969, 1710-1785; LTE bands B8, B20, B3
SIM card slot	mini-SIM, size 2FF	
Output power	dBm	23
Sensitivity	dBm	-108

Weights

Gateway (standard version, without batteries)	kg	0.329 + packaging
Battery (standard)	kg	0.122 + packaging
Double pack (optional)	kg	0.222 + packaging



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