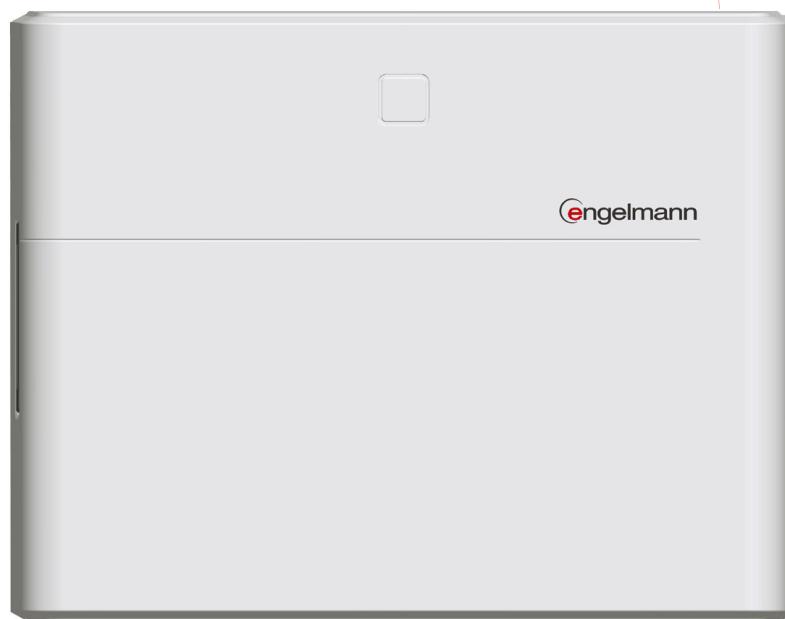


Engelmann Connect

# 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

# Overview COMSTAR



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

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

## Power supply

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

### wireless M-Bus

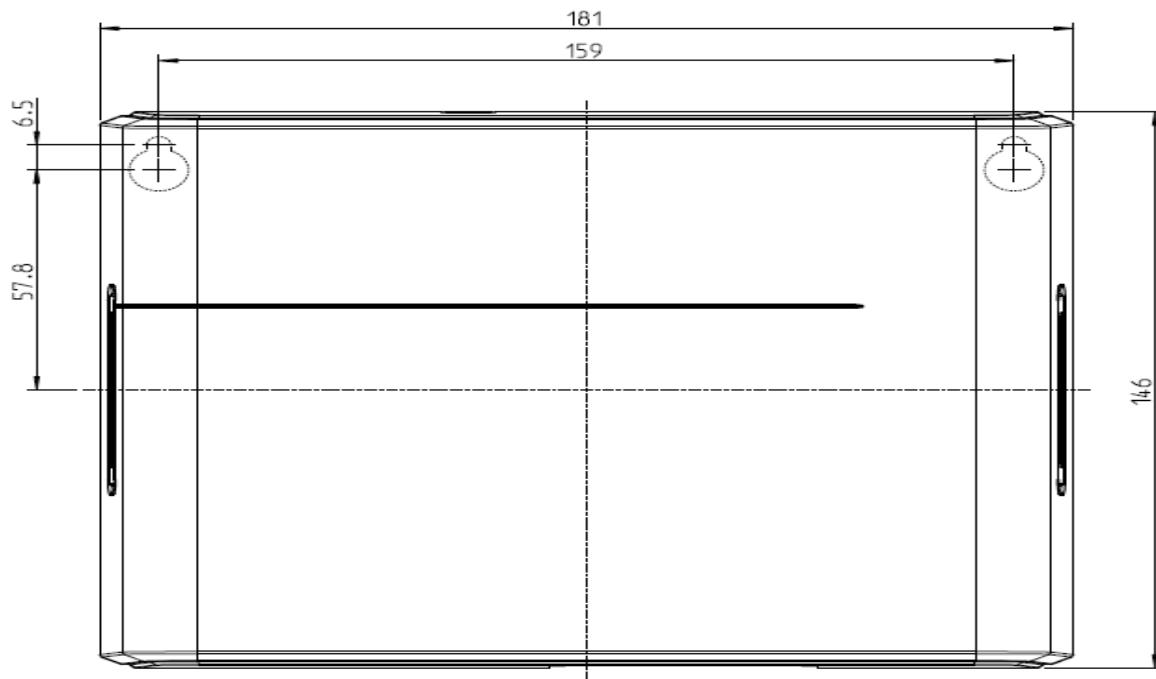
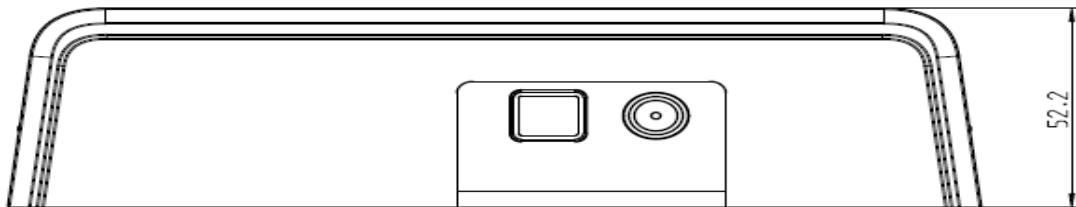
<b>Operating frequency</b>	MHz	868
<b>Protocol</b>		wireless M-Bus in accordance with EN 13757-3,-4
<b>Optional operating mode</b>		C1 / T1 S1

### 4G LTE-M

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

### Weights

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



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