SEBAFLOW

sebaKMT
A member of Megger Group

Continuous zone monitoring with ultrasonic flow meter technology

- Maintenance-free flow measurement
- Early leak detection
- Installation without supply interruption
- No chamber construction necessary
- Precise measurements even at low flow rates
- Data transmission to the SebaCloud or to the customer's own FTP server
- Battery-operated solution available as an option

SebaFlow – cost-effective and efficient

SebaFlow enables the continuous flow and zone monitoring of a pipe network section (DMA District Metering Area) through the use of ultrasonics.

Installation is managed without interrupting the water supply by means of attaching sensors to the outside wall of the pipe. SebaFlow is robust and maintenance-free, allowing installation without chamber construction.

SebaFlow operates regardless of the material. This means measuring or monitoring is possible on all types of pipe.

Pre-existing infrastructure can be used for the power supply (e.g. street lighting). A battery is also incorporated ensuring full operational readiness for several days.

All the data collected is sent via GSM modem to an FTP server. Using the SebaCloud or SebaDataView, the measured data can be easily read and evaluated.

An alarm and threshold setting function help to ensure quick and efficient intervention in emergencies.

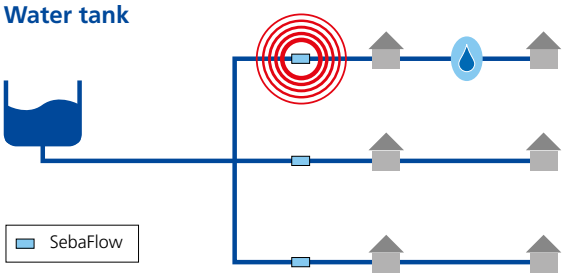
SebaFlow also supports remote monitoring and remote configuration via GSM so that, once installed, SebaFlow can be controlled and monitored from head office.

The ultrasonic sensors are wear-free, maintenance-free and have a high measurement accuracy, particularly at low flow velocities. A robust housing provides them with secure and permanent protection.

Advantages of ultrasonic technology

As SebaFlow does not come into contact with the drinking water due to ultrasonics, potential contaminants, as with other technologies, are prevented. The precise and repeatable measurements which you receive, particularly at low flow rates, represent a further advantage of SebaFlow technology.

The sensor pairs are precalibrated in the factory, which simplifies and saves time when setting up. SebaFlow is also wear and drift free. This prevents incorrect measurement results and reduces potential follow-up costs.



Inflow measurement (stationary + continuous)

- Tank outflow measurements
- Division of the supply structure into network areas
- Simultaneous monitoring of the flows in all areas
- Concentration on problem zones and larger network areas

Cost-effective installation without chamber construction

Monitoring measured data easily from the office

Fast installation without supply interruption

Watch our user video (2:40 min) for further information about the technology and the installation.

Simply scan the QR code with a smartphone or visit our homepage

www.sebakmt.com/monitoring

SebaFlow

Technical data

Measurement unit	
Operating range	max. DN 2500
Power supply	230 V external; battery operation possible
USV (battery-buffered)	Up to 48 h (5 h charging time)
Operating temperature	-22 °F to +212 °F (-30 °C to +100 °C)
Communication/ frequency	868 MHz (in Europe) 913 / 916 MHz (country-specific) Data transfer (GSM / GPRS) 850 / 900 / 1800 / 1900 MHz
Configuration	Local -> SDV or FTP config -> SDV & SebaCloud
Recording	1 s to 24 h
Alarm	Via SMS and email In the event of an alarm, measured data is sent to the FTP server and stored
Measurement range of the sensors	
Flow speed	0.003 ft/s to 82 ft/s (0.001 m/s to 25 m/s)
Resolution	0.0008 ft/s (0,025 cm/s)
Reproducibility	0.25% of measured value ± 0.03 ft/s
Volumetric flow	1.8% of measured value ±0.03 ft/s
Dimensions (Optional Cabinet)	
Distribution box without base	1.15 x 0.89 x 4.27 ft (350 x 272 x 1300 mm)
Distribution box with base	1.15 x 0.89 x 5.61 ft (350 x 272 x 1710 mm)
Measurement unit	max. 1.84 x 0.41 x 0.39 ft (max. 560 x 126 x 120 mm)
Protection class	
Sensors	IP 68*; longitudinally watertight
Distribution box	IP 43

* Test conditions: 3 months/29 psi (65.62 ft)/+68 °F
(3 months/2 bar (20 m)/ 20 °C)

Options

- SebaFlow B: independent battery-operated solution

USA, Canada, Mexico, Bahamas

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