



Compact. Flexible. Cost effective.

GEMÜ 3030 mFlow

GEMÜ is one of the world's leading manufacturers of valves, measurement and control systems. Over the course of more than 50 years, this globally focused, independent family owned enterprise has established itself in important industrial sectors thanks to its innovative products and customized solutions for process media control.

These innovative components are available at a low cost, and are widely accepted in the plant engineering sector. Thanks to its diverse application approval, the GEMÜ 3030 mFlow is the leading cost-effective solution to the conventional flowmeter.

Applications for numerous industrial sectors:

The GEMÜ 3030 mFlow is suitable for a wide range of applications in the most diverse of industrial sectors. In the majority of cases, this entails the measurement of all types of liquid media. Thanks to its contactless measurement principle, the flowmeter can also measure media with particles. One example is the measurement of fruit juices. In addition to the beverage industry, the GEMÜ 3030 mFlow is trusted for use in a wide variety of industrial and chemical applications.

An extensive collection of advantages:

- Bi-directional measurement permits installation independent of the flow direction. Due to the measurement principle, there are no moving parts in the medium. We do however recommend installation in the flow direction as indicated on the devices.
- The GEMÜ 3030 mFlow contains two totalizers, enabling the flow to be determined over a specific time period. Depending on requirements, these totalizers can be reset, enabling hourly, daily, monthly or annual values to be determined.
- The GEMÜ 3030 mFlow can be fitted with a temperature sensor which makes it possible simultaneously to detect the flow rate value and the medium temperature.

Magnetic induction as a measurement principle:

With this 3030 mFlow measurement principle, a moving conductor induces a voltage in a magnetic field which is proportional to the speed of the flowing medium. The flowing medium, which must be electrically conductive, ($\geq 20 \mu\text{S}/\text{cm}$) is the moving conductor. This makes it possible to measure the flow velocity of liquids precisely. The flow rate is then calculated using the pipe cross section previously entered by the user. Flow velocities are measured between 0.1 - 10 m/s. The measurement result is largely independent of process pressure, temperature and viscosity.

The GEMÜ 3030 mFlow operates reliably with conducting media in a temperature range of 0 - 135 °C with a supply voltage of 24 VDC and an automatic adaptation of the measuring range (0 - 4 m/s or 0 - 10 m/s). For optimal performance, the ambient temperature should not exceed 60 °C or fall below 0 °C. The magnetically inductive flowmeter can be used up to a maximum operating pressure of 10 bar.