# Precise measurement of pulsing liquids

## DulcoFlow® flow meter


NEW

The DulcoFlow® flow meter is designed for the precise measurement of volume flows in metering processes for a measuring range of 0.1 to 50 litres per hour. Based on the ultrasonic measurement method, it records the flow rates of pulsing flows as well as the volume flown through. The DulcoFlow®, in its compact universal housing ideally suited for wall-mounting, is directly installed in the pressure line of the metering pump of the medium to be measured.

Due to the fact that all media contacting parts are made of chemically resistant PVDF/PTFE, also aggressive media can be measured without any problem. Interfering influences, such as air bubbles, are identified by the DulcoFlow® and reported to the analysis unit via fault messages.

## Advantages

- Direct display of current flow and cumulative flow in litres or gallons
- Switchable to display current stroke volume
- Safety through display of operating and measurement status using LEDs
- Easy operation with membrane keys

## Features

- Compact universal housing
- Media contacting parts made of PVDF/PTFE
- Two-line display
- Frequency output / stroke feedback
- Analogue output 0/4...20 mA, configurable as recorder output or as control output

Printed in Germany, AL_PM_129_06/12_EN

# Flow meter DulcoFlow®

### Main applications

Monitoring and recording of chemical dosing in

- water treatment
- wastewater treatment
- the paper industry
- the chemical industry
- electroplating
- power plants and more

### Measuring principle

The DulcoFlow® flow meter measures pulsing volume flows based on the ultrasonic method applying the transit time measurement principle. Here, a sound signal is alternately sent both with and against the flow direction. The time difference is then the measure of the mean flow velocity. The synchronous recording rate of measured values of 1 kHz ensures fast measurements at highest reproducibility. The DulcoFlow® records 1,000 measurements per second, where the time interval between two measured values is 1 ms and the measuring range is between 0.1 and 50 litres per hour. Operation without moving parts guarantees a long service life and wear-free operation.

## Technical Data

| | |
|---|---|
| **Measuring range:** | 0.1…50 l/h |
| **Accuracy:** | < 2 % calibrated operation |
| **Analogue output:** | 0/4…20 mA |
| **Frequency output:** | Configurable, max. 10 kHz |
| **Protection class:** | IP 65 |
| **Power supply:** | 100…230 V AC/ 50/60 Hz |
| **Dimensions:** | 183.6 x 121 x 122.7 mm (H x W x D) |

## Media to be measured

| | |
|---|---|
| **Connector:** | Hose connection with nominal widths 6/4, 8/5 or 12/9 mm |
| **Medium pressure:** | 3...16 bar |
| **Medium temperature :** | -10...45 °C |

Technical changes reserved.

**ProMinent Dosiertechnik GmbH** · Im Schuhmachergewann 5-11 · 69123 Heidelberg
Tel.: +49 6221 842-0 · Fax +49 6221 842-617 · info@prominent.com