

Gear flow meter

Precise monitoring of metering

DOPAG has developed the gear flow meter specially for use in its own metering and mixing systems. In the processing of single-component media such as greases and oils, it precisely measures the flow rate during the metering process. The measuring principle is based on the volumetric gear displacement system, which offers high precision and pressure resistance. The measuring

unit is based on a pair of precisely fitted gears placed in the housing of the flow meter. The rotation of the measuring unit is detected gear by gear by a non-contact signal transducer system and converted into digital pulses. The metering unit, a gear flow meter combined with a flow-regulating and dispensing valve, is used to ensure precise discharge or filling of larger quantities.



Product properties

- Monitoring, regulating and controlling metering
- Material-guided components made from stainless steel
- With pulse multiplication
- Gear volume 0.04 / 0.2 / 0.4 / 2 cm³
- Available in ball bearing or plain bearing variants

Options

- Sensors
- Various connection and adapter plates
- Heated connection plates
- Connection cable

Metering control unit

Linking and controlling metering components

The MR40 metering control unit was specially designed by DOPAG to manage complex metering processes. It can be integrated easily into systems with a metering valve as well as into 1K metering units with a dispensing valve. The control unit enables communication between the individual system components and coordinates the various features of the metering components. In addition, the software enables various metering programmes

to be stored, which can be accessed as required and according to the application. The metering control unit features interfaces for connection to various material feeds and is compatible with measuring devices such as gear flow meters and other accessories. It can be used either as a system control unit or as an interface between a higher-level system control units and the metering system.



Product properties

- Power supply 230 VAC 50 / 60 Hz
- 7" touch panel for operation
- USB port for program updates
- Indicator lamp with buzzer in case of error messages

Options

- Profibus, Profinet or Ethernet IP module
- Various connection and heating cables
- Display protective film

Types

- Desktop housing: plastic, 370 x 330 x 200 mm, with clamps
- Wall housing: tin, 400 x 400 x 210 mm, with mounting brackets