



DOPAG material flow detector MICRO-FLOW Sensor

The MICRO-FLOW Sensor is a flow detecting device, used within a semi or fully automated metering process, to detect whether material has been dispensed.

The MICRO-FLOW Sensor does not control the metering volume.

It is used particularly when handling unfilled grease with NLGI class 1 to 3, high viscosity oils or silicone-oils.

The MICRO-FLOW Sensor can be adapted to the DOPAG Micro and Mini metering valves as well as to the 419 range of metering valves.



Features and benefits

- Continuous detection of material flow
- High process reliability
- Simple re-fitting to existing metering systems
- Compact sensor design
- Dependable electronics
- Simple operation
- No mechanical adjustment required
- Stainless steel wetted parts
- Adaptable to all DOPAG needle nozzles





Equipment

- MICRO-FLOW Sensor
- Electronic control with click assembly to control cabinet DIN track
- 5 m connecting cable with 3-pins, other connecting cables are possible



Function

The MICRO-FLOW Sensor detects whether material has been dispensed or not, without contact with the material. An induced analogue measurement signal is amplified and forwarded to the electronic controller. The sensor is able to capture up to 120 metering cycles per minute.

Should the electronic controller fail to send a signal as a result of no material flow, the master control unit will activate an alarm.

Technical data

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|-----------------------------------|---|
| Detecting volume | 5 to 25 mm ³ per cycle with Micro metering valve 5 to 1.000 mm ³ per cycle with Mini metering valve and the 419 range of metering valves |
| Cycle time | up to 120 metering cycle per minute |
| Material outlet | Connector for DOPAG needle nozzle M 12 x 1 |
| Electronic control supply voltage | 18 to 36 V DC |
| Electronic control signal output | 24 V DC, 500 mA max. |
| Dimensions, L x B x H | MICRO-FLOW Sensor without needle nozzle, 80 x 63 x 19 mm Electronic control, 115 x 100 x 19 mm |
| Weight | 110 g |



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The Hilger u. Kern / Dopag Group, with more than 300 employees, 8 subsidiaries and 24 distributors, is one of the leading manufacturers of metering and mixing systems in the world for plural component polymers and single component media such as greases, oils and pastes. For more than 30 years the group has developed systems and components to suit your individual needs.