



GKM MeiStream Plus

Woltmann Cold Potable Water Meters



Your Trusted Engineering Partner

GKM MeiStream Plus Woltmann Cold Potable Water Meters

GKM MeiStream Plus is a Woltmann-type water meter designed for measuring bulk flows of cold potable water for revenue billing in commercial or industrial applications and distribution system monitoring.

Special Features

- Meter with MID pattern approval acc. to OIML R49
- High turndown ratio, R315 in horizontal installation
- Maximum Admissible Pressure of 16 bar
- Used materials are temperature resistant up to 70°C
- Register prepared for HRI-Mei pick-up
- Use of optical pulsers type OD is still possible
- No abrupt restrictions directly downstream of the meter

Application

- Measurement of medium and high flowrates
- Measurement of low flow e.g. in light load periods
- For leakage control

Robust as ever

The GKM MeiStream Plus is manufactured from the highest quality materials for maximum resistance to wear and corrosion. Meter body is epoxy powder coated for protection in all environments. By using hydrodynamic approach, GKM MeiStream Plus measuring elements are more robust than ever while maintaining its accuracy.

HRI-Mei

The HRI-Mei is a data capture device for GKM MeiStream Plus. All GKM MeiStream Plus registers are prepared to receive HRI-Mei. The HRI-Mei provides a high resolution pulse output with optional water flow direction detection. As a result of inductive-based technology, HRI-Mei has no influence of magnetic field and offers additional data such as tampering and self diagnostic.



GKM MeiStream Plus

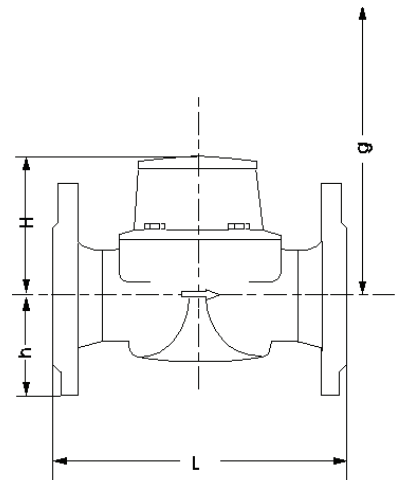
Product Specification

MeiStream Plus Metrological Characteristics



| Meter Size | | | DN50 | DN80 | DN100 | DN150 |
|--------------------------------|---------------|-------------------|----------------|---------|---------|------------|
| Minimum Flowrate | $Q_1 \pm 5\%$ | m ³ /h | 0.079 | 0.2 | 0.318 | 0.794 |
| Transitional Flowrate | $Q_2 \pm 2\%$ | m ³ /h | 0.127 | 0.32 | 0.508 | 1.27 |
| Permanent Flowrate | $Q_3 \pm 2\%$ | m ³ /h | 25 | 63 | 100 | 250 |
| Overload Flowrate | $Q_4 \pm 2\%$ | m ³ /h | 31.25 | 78.75 | 125 | 312.5 |
| Measuring Range (R) | Q_3/Q_1 | | 315 | 315 | 315 | 315 |
| Temperature Class | | | T50 | T50 | T50 | T50 |
| Max Admissible Pressure | | bar | 16 | 16 | 16 | 16 |
| Pressure Loss Class ΔP | | bar | 0.1 | 0.1 | 0.16 | 0.16 |
| Verification Scale Interval | | m ³ | 0.0005 | 0.0005 | 0.0005 | 0.005 |
| Indicating Range | | m ³ | 999 999 | 999 999 | 999 999 | 9 999 999 |
| Working Pressure Range | | bar | From 0.3 to 16 | | | |
| Orientation Requirements | | | | | | Horizontal |

Dimension



| Meter Size | | | DN50 | DN80 | DN100 | DN150 | |
|------------|--------------------|---|------|------|-------|-------|------|
| Dimensions | Overall length | L | mm | 200 | 200 | 250 | 300 |
| | Height | H | mm | 120 | 150 | 150 | 177 |
| | Height | h | mm | 73 | 95 | 105 | 135 |
| | Dismantling height | g | mm | 200 | 270 | 270 | 356 |
| Weights | Meter complete | | kg | 7.8 | 13.8 | 18.2 | 35.9 |
| | Measuring insert | | kg | 1.5 | 3.2 | 3.2 | 5.9 |
| | Body | | kg | 6.3 | 10.6 | 15.0 | 30.0 |



Pulse Values

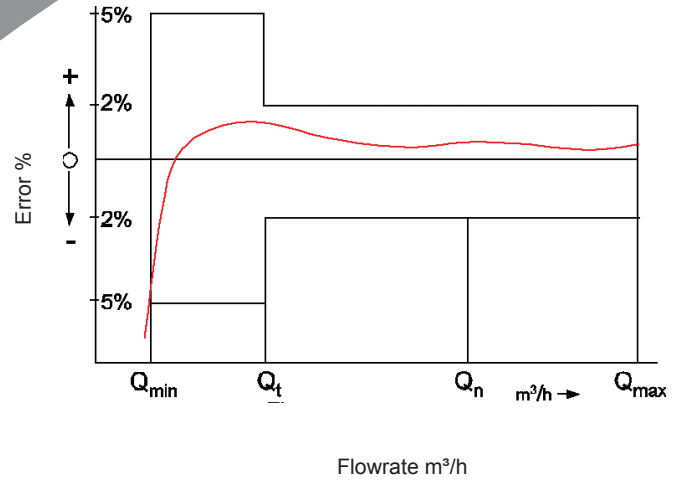
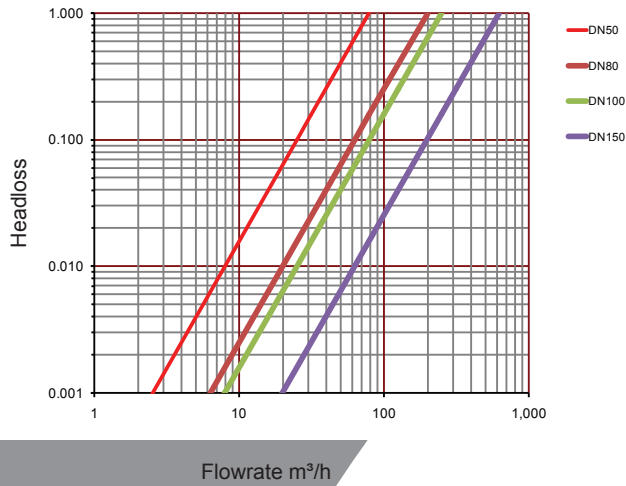
| Pulsar Type | | DN 50 ... 125 | Pulse Value | DN150 |
|-------------------------------|---|-------------------------------------|-------------|----------------------------------|
| HRI-Mei (Leaflet see LS 8400) |  | 0.01; 0.05; 0.1 or 1 m ³ | | 0.1; 0.5; 1 or 10 m ³ |
| OD 01 (Leaflet see LB 8300) |  | 0.001 m ³ | | 0.01 m ³ |
| OD 03 (Leaflet see LB 8300) | | 0.01 m ³ | | 0.1 m ³ |

Installation Requirements

| | | |
|------------|------------|---|
| Pipe | horizontal |  |
| Meter head | upwards |  |

Typical Error Curve

Typical Headloss



Approval Certificate



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The Company policy is one of continuous improvement and the right is reserved to modify the specifications without prior notice