



Cold
water

GWF



Meistream Plus

Bulk water meters with GWFcoder® register MP
for cold water up to 50 °C
DN 50, 65, 80, 100, 150

Your benefits

- Revolutionary Multiprotocol interface:
Investment security due to the interoperability of the meter
- Transfer of the effective meter reading:
No data loss and guaranteed security of the billing data
- No programming required when commissioning the meter in a readout system (Plug & Play)
Easy and fast on-site installation
- Measurement of low flow rates:
Increased cost effectiveness
- Removable measuring insert:
Retrofittability and replaceability guaranteed
- One measuring insert for various bodies:
Lower storage costs

Application

- Measurement of medium to high flow rates
- Measurement of low flow rates during offpeak periods
- Automated mobile or fixed network readout of relevant billing data
- Wired or radio remote readout of hard to access metering installations, e.g. meter pits, reservoirs
- Measuring of
 - Desalinated / demineralized water
 - Caustic soda up to 20%
 - Saline water up to 10%
 - Chlorinated water up to 1%
 - Glycol-water solutions up to 30%
 - Caustic solutions up to pH value 9

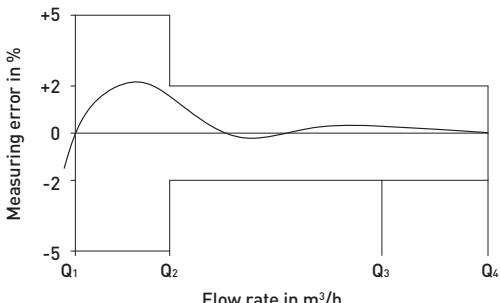
Features

- Horizontal installation position
- No straight flow section required before the meter
- Register can be turned through 355°
- Maximum operating pressure PN 16 bar
- Temperatures up to 50 °C
- Rotor is hydrodynamically, radially, and axially balanced
- Available in the standard installation lengths for WS and WP meters
- Powder coating provides optimum corrosion protection
- Non-ferrous metal design
- SVGW certification
- CE Conformity according to the European Measuring Instrument Directive (MID)
- Flood-proof register (IP68) with Multiprotocol interface (MP), 5 m cable and provision for a HRI pulser
- M-Bus standard unit load: 2 unit loads (3 mA)

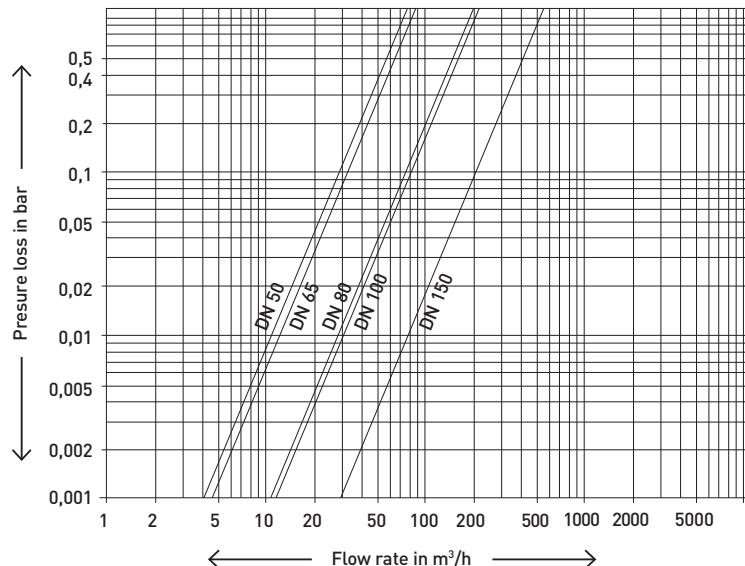
Options

- High-resolution pulse generator HRI
□ Documentation: [HRI - EPe10213](#)
- Radio module RCM® split
□ Documentation: [RCM® - EPe40232](#)
- Radio module RCM®-LRW...
□ Documentation: [RCM®-LRW... - EPe40261](#)

Measurement error curve



Typical Head Loss Curve



Installation

Pipeline: horizontal —

Meter head: upwards ↑

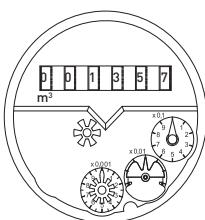


Commission

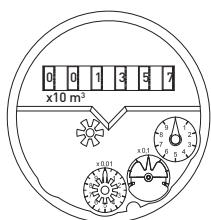
When commissioning the meter the measuring section must be filled slowly (bleed slowly).

Dial

DN 50 – DN 100



DN 150

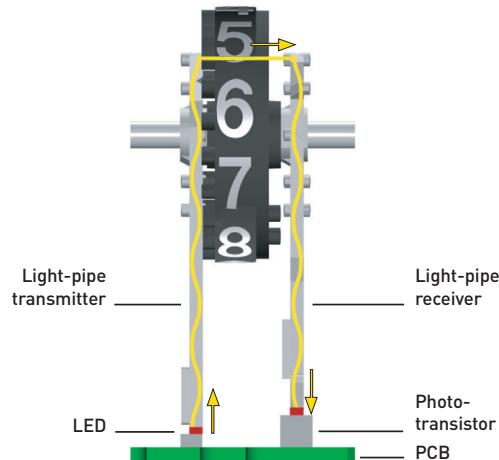


Nominal size	DN	50–100	150
Smallest reading	m^3	0,0005	0,005
Maximum register reading	m^3	1'000'000	10'000'000

Pulse values HRI Pulser

Meter sizes	DN 50...100 1 Pulse = ...Liter	DN 150 1 Pulse = ...Liter
Meistream Plus	100 1000	1000 10000

GWFCoder®-Technology



In the GWFCoder® system, the individual rollers of the mechanical register are read out optoelectronically. The position of the various long asymmetrically arranged slits in the roller counters is scanned using 5 light barriers (light-pipe transmitter and receiver). The light barriers are implemented with phototransistors. LEDs, and light conductors, which are all consecutively scanned and evaluated. The precisely defined position of each individual roller counter is encoded as an absolute roller counter reading and read out as a part of the protocol via the GWFCoder® interface. This functioning principle is patented by GWF. The GWFCoder® interface, compared to a meter with a pulse output, has an incomparably higher level of information content and readout accuracy. A GWFCoder® register does not require a battery, which, in turn, does not compromise existing revision cycles. The readout device supplies the power for the readout.

Moreover, all products with multiprotocol functionality provide the flexibility to switch between wall readout (inductive or CL), Wired M-Bus or radio readout which leads to an easy and fast «Plug & Play» installation on site.

GWFCoder®-Data package

SCR: IEC 62056-21 Mode A (IEC 1107)

Medium: Water
Absolute meter reading: 123654 m³
Serial number: 43215678
Meter size: DN 50

M-Bus: EN 13757

ECO: EN 13757-3

Example of use

Wireless read-out

Meter with GWFCoder® register is read out automatically by radio using a mobile infrastructure (for example radio module RCM® and MEx).

