



UNICOcoder[®] MP

Singlejet meter



Your benefits

- Mechanical roller register with 1-litre resolution:
Efficient consumption monitoring in energy data management
- Transfer of the effective meter reading:
No data loss and guaranteed security of the billing data
- Register without batteries:
No service life restriction
- Robust, high grade wear resistant materials:
Excellent measuring stability and reliability
- Measurement of low flow rates:
Increased cost effectiveness

Applications

- Residential consumption monitoring of water consumption within an entire building
- Surface mounting
- Water meter with M-Bus data communication

Properties

- Singlejet dry-dial meter with magnetic coupling
- 8 dial resolution with 3 comma place
- Register can be turned for best readout position
- Maximum operating pressure PN 16 bar
- Maximum operating temperature 90 °C
- Horizontal or vertical installation
- High grade wear resistant and corrosion proof materials
- Inlet strainer
- Recyclable execution
- **CE** Conformity according to European Measuring Instruments (MID)
- Serial M-Bus-Interface to EN 13757-2 and M-Bus-Protocol EN 13757-3
- Power is provided from the M-Bus central
- Connecting cable, standard length 1,5 m
- UL2043 plenum rating for products installed in air-handling spaces

Options

- M-Bus peripheral devices

GWFcoder®-Technology

The 2nd generation

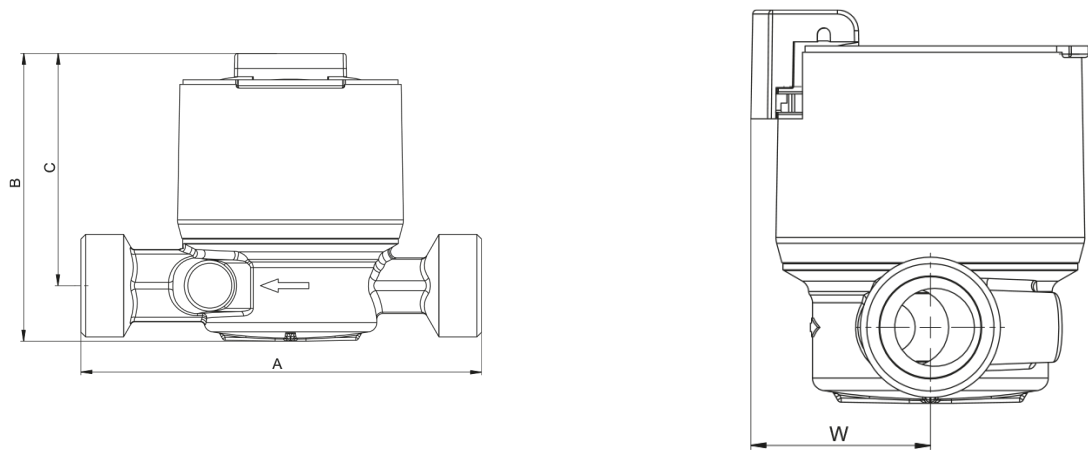
The well-established GWFcoder®-system reads the absolute mechanical register value precisely and reliably and provides the data through standardized interfaces. The number wheels with three various long, asymmetrically arranged slots are being scanned through light pipes which are connected to five light emitting diodes (LED). Thus, the exact position of each number wheel can be detected and the encoded absolute register read can be transmitted as part of the M-Bus protocol. This functioning principle is patented by GWF. The GWFcoder®-interface provides an incomparably higher level of information compared to meters with pulse output.

GWF enhanced the reliable technology in its 2nd generation, so that 8 instead of 5 number wheels are being scanned and therefore a resolution of 1 liter is possible.

Technical Data

Execution						
Nominal diameter	DN	mm	15	20	20	20
Nominal pressure	PN	bar	16	16	16	16
Connection thread on meter	G...B	Inch	3/4	1	1	1
Connection thread on coupling	R...	Inch	1/2	3/4	3/4	3/4
Nominal flow rate	Q3	m³/h	2,5	2,5	2,5	4
Maximum flow rate	Q4	m³/h	3,125	3,125	3,125	5
Partial limit horizontal ± 3 %	Q2h	l/h	50	50	50	80
Partial limit vertical ± 3 %	Q2v	l/h	100	100	100	160
Minimum flow rate horizontal ± 5 %	Q1h	l/h	31,3	31,3	31,3	50
Minimum flow rate vertical ± 5 %	Q1v	l/h	62,5	62,5	62,5	100
Kvs-value		m³/h	3	3	3	5
Temperature		max. °C	90	90	90	90
Measuring range horizontal			R80	R80	R80	R80
Measuring range vertical			R40	R40	R40	R40

Dimension Diagram



Dimensions and weights						
Length without couplings	A	mm	110	110	130	130
Length with couplings		mm	184	202	222	222
Height	B	mm	94	94	94	94
Height from pipe centre line	C	mm	76	76	76	76
Installation depth from pipe centre line	W	mm	43	43	43	43
Weight without couplings		app. g	690	720	770	710
Weight with couplings		app. g	830	950	1000	940

Installation

Pipeline:	horizontal	—
	vertical	
Meter head:	upwards	↑
	sideways	↔

Environment and certifications

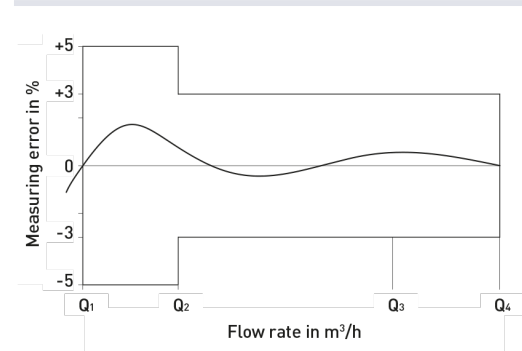
Environment	
Permissible ambient temperature	+5 to + 55 °C
Current consumption	max. 2 M-Bus Loads
M-Bus-Interface / -Protocol	EN 13757-2/-3
Standard transmission speed	2400 baud (optional 300 baud)
Register protection class	IP67

Certifications				
UBA brass	x	x	x	x
KTW / W270	x	x	x	x
WRAS (Type: Unico2coder MP)	x	x	x	x
NSF-61-G (Type: Unico2coder MP)	-	-	x ¹⁾	x ¹⁾
UL2043	x	x	x	x

1) only 1" NPSM execution

Information	
EU-REACH Art. 33 / ChemV Art. 71	Brass products contain lead > 0,1 %

Measuring error curve



Typical Head Loss Curve

