Water



UNICOcoder® NTEP

Singlejet meter

Your benefits

- Mechanical roller register with 0.1 US gallons 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

Properties

- NSF/ANSI 61-G & 372 certified and marked
- NTEP Approval CC 19-019A2
- UL2043 plenum rating for products installed in air-handling spaces
- Meets AWWA C712 accuracy standards in horizontal and vertical position
- Sealed register for tamper resistance
- Meter with high accuracy and durability
- Encoder Output – serial data interface to wired or wireless transmitting device

GWF AG
Obergrundstrasse 119
6005 Lucerne, Switzerland

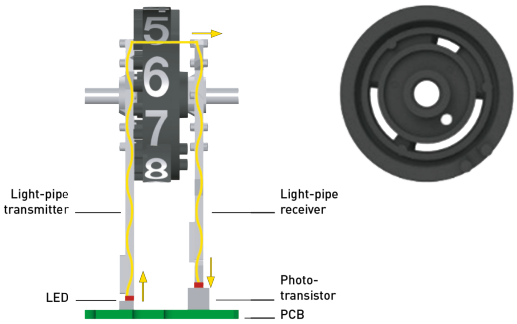
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Encoder-Technology

The well-established GWFcoder®-system reads the absolute mechanical register value precisely and reliably and provides the data through standardized serial 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.

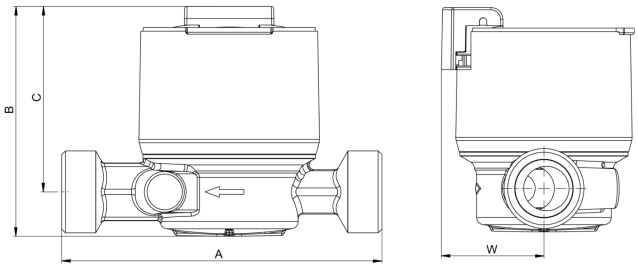


Meter absolut Encoder readout	
Absolute meter reading	1236542.1 US gallons
Serial number	43215678
Meter state	OK
Medium	Water

Installation

Pipeline	horizontal	—
	vertical up-flow / vertical down-flow	|
Meter head:	facing up	↑
	sideways	←→

Dimension Diagram



Dimensions and weights				
Length without couplings	**A**	**Inch**	**5.12**	**7.5**
Height	B	Inch	3.7	3.7
Height from pipe centre line	C	Inch	3.0	3.0
Installation depth from pipe centre line	W	Inch	1.7	1.7
Weight without couplings		lbs	1.57	2.3

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Technical Data

Specifications	
Max flow rate	22 gpm
Nominal flow rate	11 gpm
Min flow rate (+ 1,5/- 5 %)	0.50 gpm
Max working pressure	230 psi
Max working temp	194°F
Nominal pipe size	¾"
Connection on meter	1" NPSM thread
Main case material	Brass
Encoder resolution	1/10gal
Current consumption	max. 2 M-Bus Loads
Meter Output Encoder Wired M-Bus	EN 13757-2/-3
Meter Output Encoder ECO (for radio modules)	EN 13757-3
Standard transmission speed	2400 baud

Ambient conditions	
Permissible ambient temperature UNICOcoder® MP	+41°F to +131°F
Transport & Storage temperature	-4 °F to + 158 °F
Register protection class	IP67 or IP68

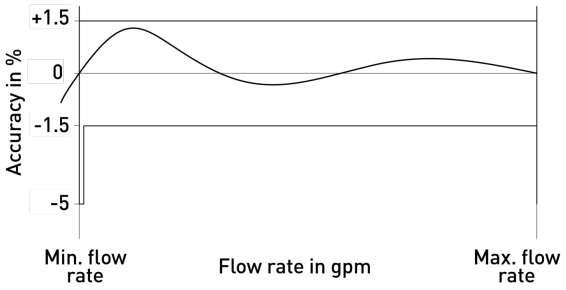
Approval	Unico2coder MP
NTEP cold/hot 33° - 156.7°F No. CC 19-019A2	■
New York Certificate No. 10766	■
UL2043	■

Certifications	Unico2coder MP
NSF/ANSI 61-G & 372 D.Hot / incl. cold	■

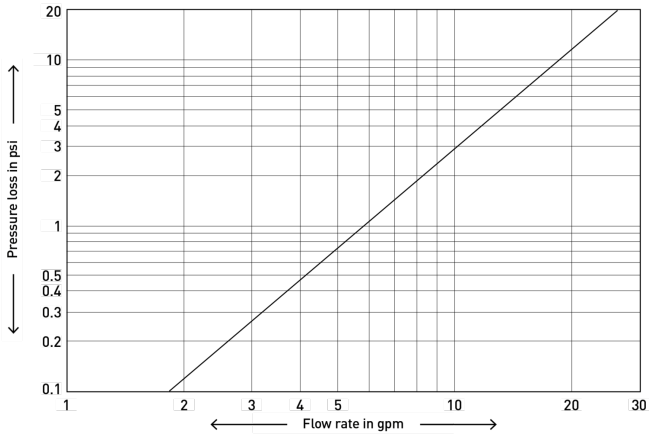
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Accuracy chart



Pressure loss chart



Comparison «absolute meter reading» vs. pulse

GWFcoder® technology:

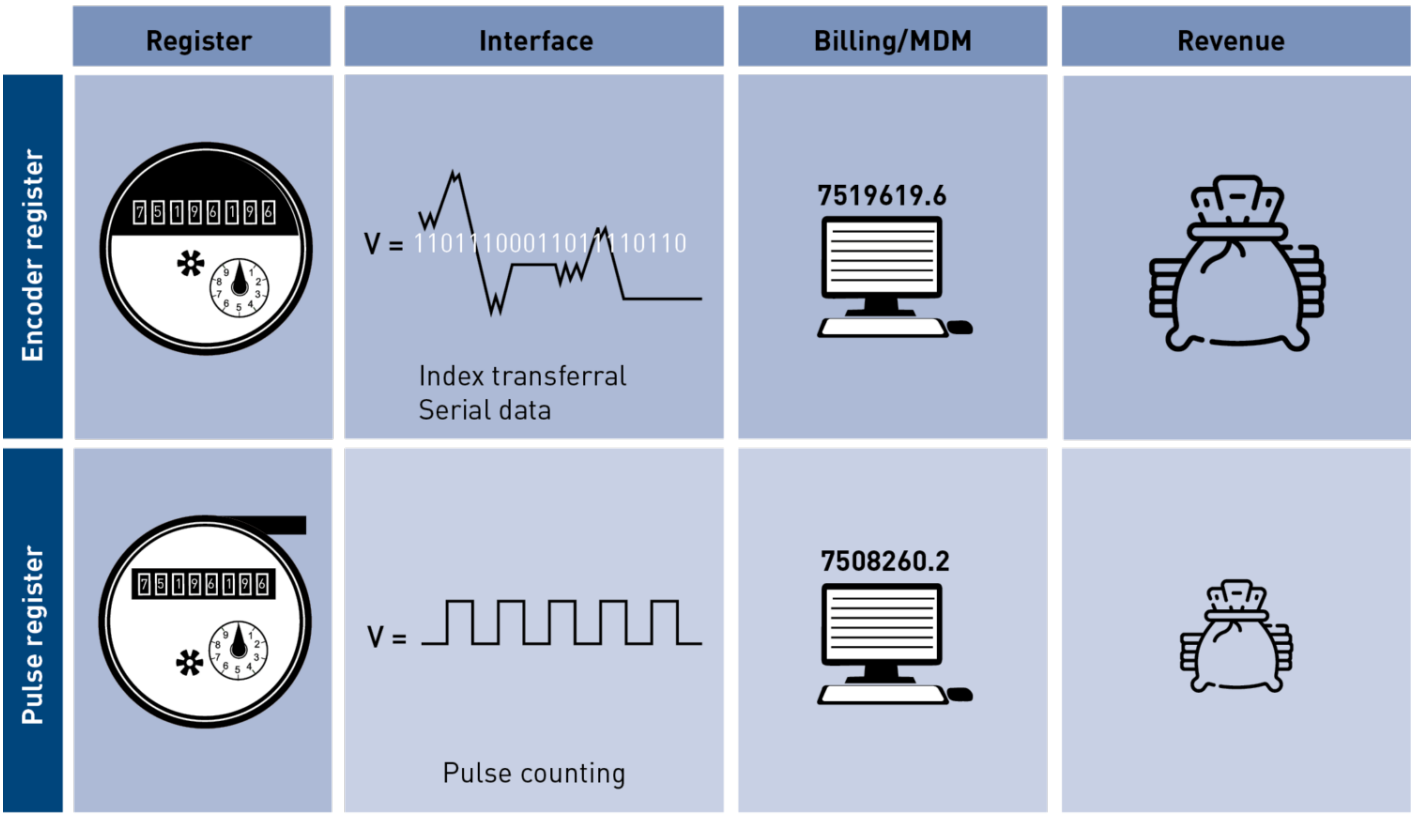
Transfers the effective meter reading. The read-out value in the billing system and the invoice are the same as the meter reading.

Pulse transfer:

The potential sources of error for a reproduced meter reading with pulse transmission are:

- Bouncing
- Backflow water
- Temporary signal interruption
- Double pulses
- Incorrect pulse value

The readout value in the billing system and the invoice may differ from the meter reading leading to diminished revenue stream.



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