

# Water Meters

## Flow measuring instrument for water use

### NWM Water Meter

The NWM Water Meter is a device for measuring flow in water applications.

The NWM water meter has a pulse output for connection to LORENTZ pump controllers.

The water meter is used in applications where measured flow and water volume values are required.

The NWM Water Meter is suitable for applications with a pipe size of DN25 and DN32.

The NWM Water Meter contains a special sealed liquid which is separate from the flow water to maximize readability, avoid fogging and avoid scaling.

#### Characteristics

- All materials in contact with water are corrosion resistant.
- Five (5) digit mechanical display showing total liquid in 1m3 increments.
- Reed switch output which can be connected to PS2 and PSK controllers.
- Easy to install.

#### Technical Data

- Water temperature max. 50°C
- Water pressure: max. 16 bar
- Reed switch positioned on the x0,001 dial pointer: 10 l/imp.
- Reed Switch cable length: 1,45m
- IP64
- CE Conformity



#### Flow rate characteristics

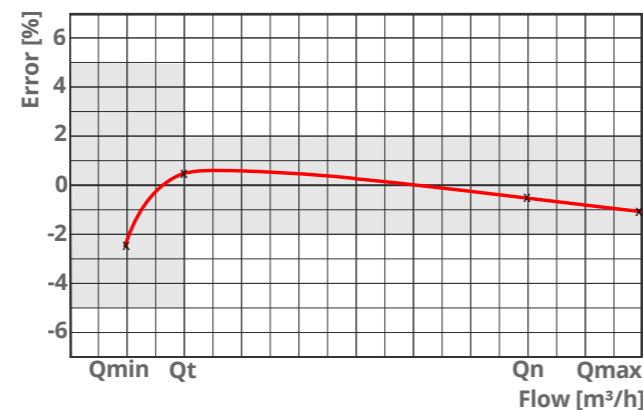
Flow	DN25	DN32
Max. flow rate: $Q_{max}$ [m <sup>3</sup> /h]	7,87	12,5
Nominal flow rate: $Q_n$ [m <sup>3</sup> /h]	6,3	10
Transition flow rate: $Q_t$ [m <sup>3</sup> /h]	0,063	0,1
Minimum flow rate: $Q_{min}$ [m <sup>3</sup> /h]	0,036	0,062

#### Reed switch impulse data output

Reed switch impulse	
Water meter size	Liters per impulse
DN25	10
DN32	10

#### Accuracy Curve

The Accuracy curve shows the deviation in percent error for different flow rates. In regular operation the deviation is between -2% and +2%.



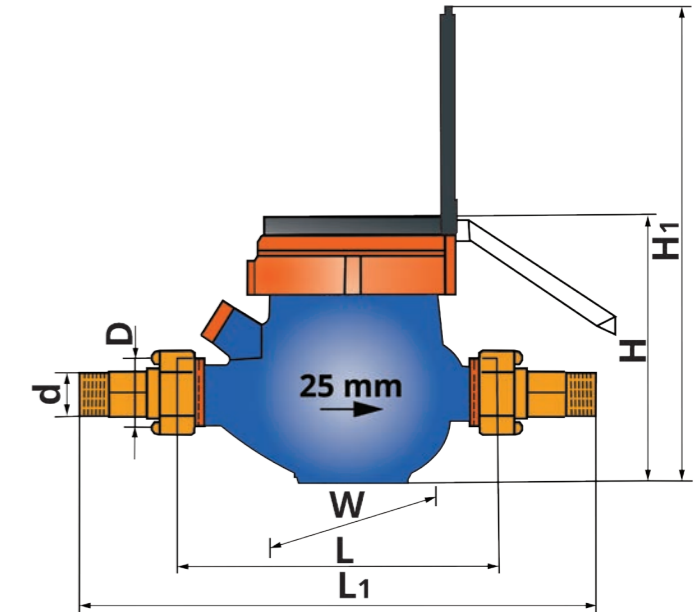
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### NWM Water Meter

#### Dimensions and weights

Description	DN25	DN32
L [mm]	260	260
L1 [mm]	380	384
D [mm]	G1-1/4B	G1-1/2B
d [mm]	R1	R1-1/4
H [mm]	117,5	117,5
H1 [mm]	206,5	206,5
W [mm]	98	98
Net Weight [kg]	2,6	3,1



#### Order information

Item number	Description
19-002220	Water meter, NWM-DN25, 0.01 cbm/p
19-002225	Water meter, NWM-DN32, 0.01 cbm/p

#### Packaging information

Description	19-002220	19-002225
Dimension [LxWxH] [mm]	310x280x250	310x280x250
Gross Weight [Kg]	3,5	3,9
Volume [m <sup>3</sup> ]	0,022	0,022

# Water Meters

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### WP Water Meter

The WP Water Meter is a turbine type magnetic transmission instrument intended to measure high flow rates in water applications. Water meters should be used in cases where accurate measurement of water volume is required.

WP Water Meters cover a wide flow range and are designed to handle high flow rates. They are suitable for applications with a pipe size from DN50 to DN200.

The helical blades of the turbine rotate around the axis of the flow. The magnetic transmission keeps the register separate from water, meaning only the impeller and transmission shaft contact water.

#### Characteristics

- Removable and interchangeable measuring element.
- Hermetically sealed dry type register.
- Reed switch output which can be connected to PS2 and PSK controllers using LORENTZ CONNECTED applications.
- Easy to install.

#### Technical Data

- Water temperature max. 40°C
- Water pressure: max. 16 bar
- Reed Switch cable length: 1,45m
- IP64
- CE Conformity



#### Flow rate characteristics

Flow	DN50	DN65	DN80	DN100	DN125	DN150	DN200
Max. flow rate: $Q_{max}$ [m³/h]	50	78,75	78,75	125	200	312,5	500
Nominal flow rate: $Q_n$ [m³/h]	40	63	63	100	160	250	400
Transition flow rate: $Q_t$ [m³/h]	0,8	1,26	1,26	2	3,2	5	8
Minimum flow rate: $Q_{min}$ [m³/h]	0,5	0,7875	0,7875	1,25	2	3,12	5

#### Reed switch impulse data output

Reed switch impulse	
Water meter size	Litres per impulse
DN50	100
DN65	100
DN80	100
DN100	100
DN125	100
DN150	1000
DN200	1000

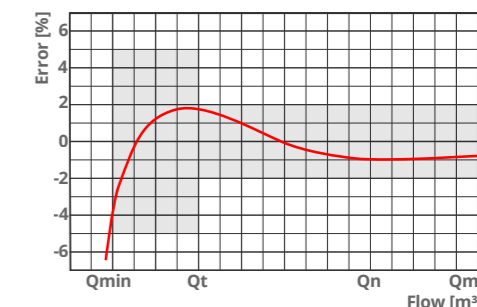
# Water Meters

## Flow measuring instrument for water use

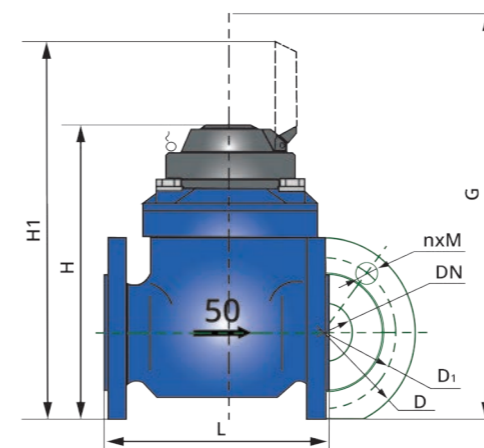
### WP Water Meter

#### Accuracy Curve

The Accuracy curve shows the deviation in percent error for different flow rates. In regular operation the deviation is between -2% and +2%.



#### Dimensions and weights



Description	DN50	DN65	DN80	DN100	DN125	DN150	DN200
L [mm]	200	200	225	250	250	300	350
H [mm]	252	262	272	282	297	341	371
H1 [mm]	339	349	359	369	384	428	458
G [mm] [Maintaining height]	400	400	400	400	400	500	500
D [mm]	165	185	200	220	250	285	340
D1 [mm]	125	145	160	180	210	240	295
nxM [Connecting bolt qty]	4xM16	4xM16	8xM16	8xM16	8xM16	8xM20	12xM20
Weight [kg]	12	13	15	16	21	33	42

#### Order and Packaging information

Item number	Description	Gross Weight [Kg]	Dimension [LxWxH] [mm]	Volume [m³]
19-002165	Water meter, WP-DN50, 0,1 cbm/p	15	280x230x320	0,021
19-002170	Water meter, WP-DN65, 0,1 cbm/p	16	290x230x330	0,022
19-002180	Water meter, WP-DN80, 0,1 cbm/p	17	280x240x350	0,023
19-002190	Water meter, WP-DN100, 0,1 cbm/p	20	320x260x350	0,029
19-002200	Water meter, WP-DN125, 0,1 cbm/p	25	340x310x390	0,041
19-002210	Water meter, WP-DN150, 1 cbm/p	38	370x340x420	0,053
19-002202	Water meter, WP-DN200, 1 cbm/p	49	415x390x435	0,070