

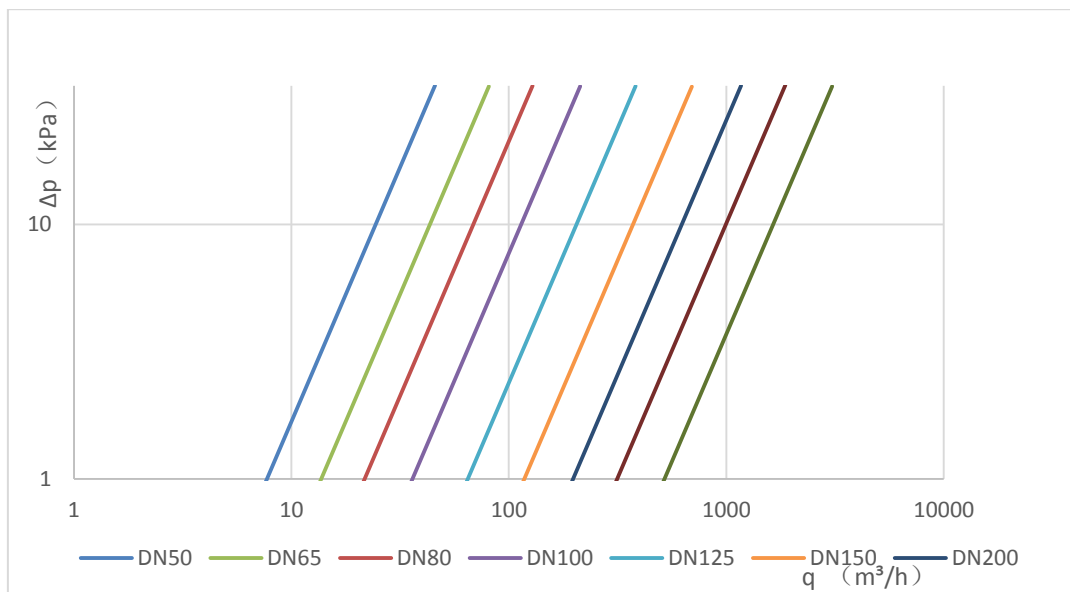
FEATURES

Ultrasonic water meter

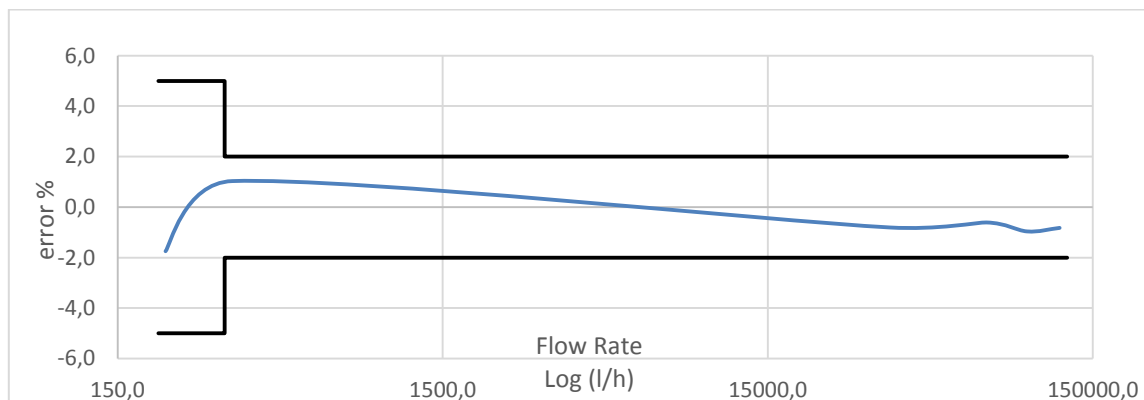
- Ideally suited for bulk metering
- Sizes available: DN 50 to DN 200
- Maximum operating temperature: 50 °C
- Liquid crystal display
- Magnetically operated button
- Low starting rate; minimum flow rate is 1/3 of the flow rate of traditional water meters
- Temperature detection and alarm symbols
- Alarm for anomalous water use
- Ultrasonic signal quality detection
- No moving parts, wear-resistant, long-term operation
- May be installed in any position
- Battery service life: 13 years
- Protection rating IP68
- A pulse output comes as a standard
- Directive 2014/32/EU approved



HEAD LOSS



ERROR CURVE



HYDRAULIC PERFORMANCE

Accuracy class		2
Q ₃ /Q ₁ ratio		500:1 (further R values on request)
Maximum reading m ³ /h	DN50-DN100	9999999,99999
	DN 125-DN 200	99999999,99999
Maximum working pressure		1,6 MPa (1,0 MPa on request)
Temperature class		T50 (T30 on request)
Flow profile sensitivity classes		H U3-D0, V U10-D5
Protection rating		IP68 (IP65 with external power supply)
Power supply		3,6 V lithium battery (220 V ac, 24 V dc)
Battery service life		13 years
Environmental and mechanical conditions		Class C (class B, class I optional)
Electromagnetic class		Class E1 (class E2)
Liquid		Water
Installation position		Any

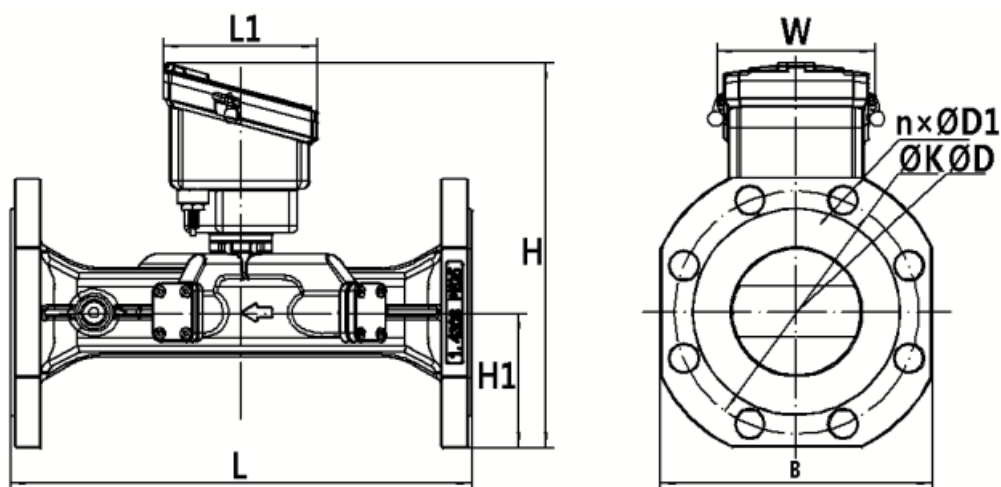
SIZES

DN	mm	50	65	80	100	125	150	200
Q ₃ /Q ₁ ratio		500	500	500	500	500	500	500
Overload flow rate Q ₄	m ³ /h	31.25	50.00	78.75	125.00	200.00	312.50	500.00
Permanent flow rate Q ₃	m ³ /h	25.00	40.00	63.00	100.00	160.00	250.00	400.00
Transitional flow rate Q ₂	m ³ /h	0.080	0.128	0.202	0.320	0.512	0.800	1.280
Minimum flow rate Q ₁	m ³ /h	0.050	0.080	0.126	0.200	0.320	0.500	0.800
Head loss		25	25	25	25	25	25	25
Pulses/litre	P=L	1P=10L	1P=10L	1P=10L	1P=10L	1P=100L	1P=100L	1P=100L
Pulse duration	ms	100	100	100	100	100	100	100

DIMENSIONS

PN	PN10/PN16						PN10	PN16
DN (mm)	50	65	80	100	125*	150	200*	200*
L	200	200	225	250	250	300	350	350
L1	120	120	120	120	123	120	120	120
H	245	250	275	290	380	400	470	470
H1	65	70	90	100	125	130	170	170
W	123	123	123	123	123	123	123	123
B	172	190	205	230	250	285	340	340
D	165	185	200	220	250	285	340	340
K	125	145	160	180	210	240	295	295
n×ØD1	4×Ø18	4×Ø18	8×Ø18	8×Ø18	8×Ø18	8×Ø22	8×Ø22	12×Ø22

*DN 125 and DN 200: steel body (other DN's: cast iron body)



CONNECTIONS

Wire	Signal	Description
White	Pulses	Pulse signal both with forward flow and backflow
Yellow	Direction	Contact closed = backflow
Green	Tampering	Contact open = tampering
Brown	Ground	Common ground signal
Grey	Forward pulses count	In the event of backflow, the meter internally counts the volume flowed. When the forward flow is restored, no pulses are generated until the value of the volume flowed is zero.