MÄTARKONTROLL

WB-N

Woltman meter

Woltman well water meter

Type woltman perpendicular (DN50 - DN150)

Optimally equipped for remote readout

For installation at the junction of a vertical pipeline with a horizontal pipeline

Well water meters are meters from type Woltman perpendicular with a special design of the housing. These can be installed as wellheads in place of a 90° elbow in accordance with DIN 28537 and DIN 28637.

The housing is specially adjusted to the conditions in well systems. The well water enters the bottom of the water meter, flows through the vertical turbine and is directed out of the meter again at right angles.

The special construction of our turbines guarantees low starting flows and also provides sufficient reserves in the overload range even to be able to record high flow rates reliably.

The internal and external coating protects the meter permanently against corrosion. Mineral deposits in the water are unable to damage the dry dial register. The design is ideally suitable for narrow well shafts with small dimensions. There is no need to provide an extra installation location for a Woltman meter.

Product characteristics

- Low starting flow and high overload security
- Wide mesuring range, low pressure loss
- Hydraulic bearing relief
- Durable measuring stability
- No straight inlet or outlet needed (U0/D0 according to OIML R49 and DIN EN ISO 4064)
- Materials and coating approved in accordance with KTW / W 270
- Register rotatable by 355°
- Operating pressure MAP 16
- Approved in accordance with MID

Applications

- For the measuring of high flow rates
- For installation at the junction of a vertical pipeline with a horizontal pipeline
- For cold water up to 30°C (accurate up to 50°C).

AMR Options

- Retrofittable with reed pulser
- Retrofittable with optical sensor
- Can be combined with stationary GSM system
- Radio via PDC-radio module:
  - Wireless M-bus (according to OMS)
  - Radio via LPWAN (LoRaWAN™, SIGFOX)

Technical Data WB-N

Nominal diameter			DN 50	DN 80	DN 100	DN150
Permanent flow	Q_3	m³/h	25	63	100	250
Attainable measuring range	Q_3/Q_1	R	R63V	R63V	R63V	R63V
Standard measuring range*	Q_3/Q_1	R	R63V	R63V	R63V	R63V
Overload flow**	Q_4	m³/h	31,25	78,75	125	312,5
Minimum flow**	Q_1	m³/h	0,40	1,00	1,59	3,97
Start-up flow rate	-	m³/h	0,1	0,15	0,25	0,4
Display range	min	l	0,5	0,5	0,5	5
	max	m³	999.999	999.999	999.999	9.999.999
Temperature range	-	°C	0,1 - 30	0,1 - 30	0,1 - 30	0,1 - 30
Operating pressure, max.	MAP	bar	0,3 - 16	0,3 - 16	0,3 - 16	0,3 - 16
Pulse value Reed		l/Imp.	100	100	100	100
Pulse value optical sensor		l/Imp.	1	1	1	10
Pressure loss at Q_3	Δp	bar	0,63	0,63	0,63	0,63
Mechanical environmental condition	-	-	M1	M1	M1	M1
Climatic condition**	-	°C	5 - 55	5 - 55	5 - 55	5 - 55
Flow profile sensitivity	-	-	U0/D0	U0/D0	U0/D0	U0/D0
Abmessungen und Gewichte:						
Overall length	L	mm	150	180	200	250
Height	H	mm	236	288	298	379
Flange diameter	DF	mm	165	200	220	285
Bolt circle diameter	-	mm	125	160	180	240
Number of bolts	-	pcs.	4	8	8	8
Screw size	-	mm	M16	M16	M16	M20
Bolt diameter	-	mm	19	19	19	23
Weight approx.	-	kg	14	18	24	45

* Flanges according to DIN EN 1092-2 **Condensation possible