

# WESAN WP H E

ELECTRONIC METER | WOLTMAN

HYDROMETER



## APPLICATION

Fully electronic bulk water meter for extracting water from underground and stand hydrants.

## FEATURES

- ▶ Calibratable and exchangeable measuring insert
- ▶ Electronic sensor control for recording flow rate
- ▶ Lithium battery, lifetime 10 years
- ▶ Optical ZVEI interface equipped as standard
- ▶ Adjustable reading date for billing
- ▶ Rotatable integrator
- ▶ Single-line 7-digit display for easy meter reading
- ▶ For horizontal or vertical installation
- ▶ Outstanding long-term accuracy through hydraulic bearing relief
- ▶ Version thread or solid coupling

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## ELECTRONIC - BASIC FEATURES

WESAN WP H E	
Ambient class	OIML R49 class C / MID E2 + M1
Protection class	IP 54 or IP 68
Interfaces standard	Optical ZVEI
Interfaces optional*	M-Bus, L-Bus, pulse

\* Possible combinations

- M-Bus / pulse
- L-Bus / forward pulse
- only M-Bus

Note: HYDRO-SET Software for configuration of meters, readout of measured values and printout of meter logs. Available under [www.hydrometer.de](http://www.hydrometer.de) (Products - downloads)

## DISPLAY

WESAN WP H E	
Display indication	LCD, 7-digit
Unit	m <sup>3</sup> /h - l/h - m <sup>3</sup> - l
Total values	9,999.999 - 999,999.9 - 99,999.99 - 9,999.999
Values displayed	Flow rate

## VOLUME - / PULSE OPEN COLLECTOR

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Max. frequency	Hz	90
Max. input voltage	V	30
Max. input current	mA	27
Max. voltage drop at active output	V/mA	2/27
Max. current through inactive output	µA/V	5/30
Max. reverse voltage without destroying outputs	V	6
Pulse duration	ms	5.5
Min. pulse pause	ms	5.5

## SUPPLY VOLTAGE

WESAN WP H E			
Operating voltage	UN	VDC	3.0 (lithium battery)
Battery lifetime			10 years
Nominal power	PN	µW	30

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## INTERFACES - OVERVIEW

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Optical	ZVEI interface for communication, M-Bus protocol
M-Bus	According to EN 1434-3. Data reading and parametrization are via two wires with polarity reversal protection.
L-Bus	Interface for the radio module IZAR RADIO EXTERN
Pulse	Output for volume (open collector)

## PULSE INTERFACE - SPECIFICATION

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Pulse rates	l/pulse Decadic 1 ... 1000
Display	1 digit after comma
Pulse value 1	l/pulse 1 (factory setting)
Pulse value 2	l/pulse 100 (factory setting)
Pulse variants	Two forward pulses; one forward and one backward pulse; pulse and direction signal

Note: In the field the pulse values can be configured as desired in the specified value range.

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## GENERAL

			WESAN WP H E	
Temperature range	°C		0 ... 30	
Temperature safety	°C		0 ... 50	
Ambient operating temperature	°C		0 ... 55	
Ambient storage temperature	°C		0 ... 55	
Nominal pressure	PN	bar	16	
Display range			0.5 l ... 999,999 m <sup>3</sup>	

## TECHNICAL DATA

Nominal diameter	DN	mm	50	80
Nominal flow rate (DIN ISO 4064)	Q <sub>n</sub>	m <sup>3</sup> /h	15	40
Permissible continuous load (HY)	Q <sub>n</sub>	m <sup>3</sup> /h	35	120
Maximum flow rate (short-term)	Q <sub>max</sub>	m <sup>3</sup> /h	90	200
Transition flow rate	Q <sub>t</sub>	m <sup>3</sup> /h	0.8	0.8
Minimum flow rate horizontal	Q <sub>min</sub>	m <sup>3</sup> /h	0.3	0.5
Minimum flow rate vertical	Q <sub>min</sub>	m <sup>3</sup> /h	0.5	0.5
Starting flow rate		l/h	90	160
Flow rate at 0.1 bar pressure loss		m <sup>3</sup> /h	35	115

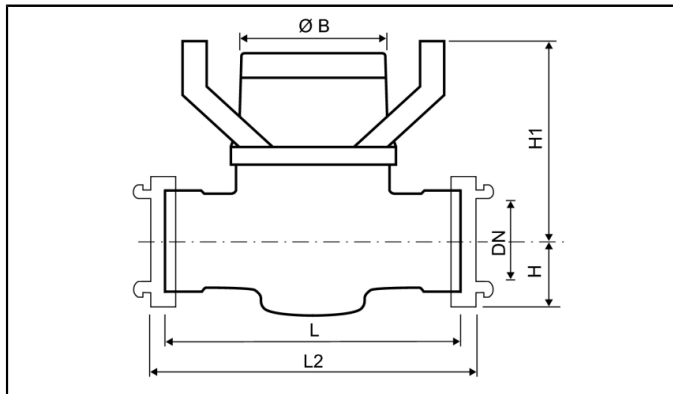
## APPROVAL

Nominal diameter	DN	mm	50	80
National			6.132 / 03.20	6.132 / 06.23
Metrological class			A/B•H	B

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## DIMENSIONS

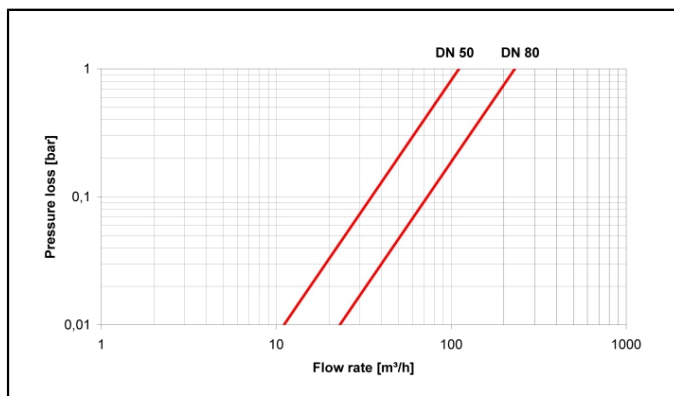


Nominal diameter	DN	mm	50	80
Overall length	L	mm	200	300
Overall length with coupling	L2	mm	245	336
Connection thread on meter		Inch	G2	G2½
Solid coupling			C	B
Height	H	mm	82	82
Height	H1	mm	140	140
Diameter	Ø B	mm	110	110
Width with carrying device		mm	180	180
Weight - version thread		kg	4.3	5.7
Weight - version solid coupling		kg	4.8	5.4

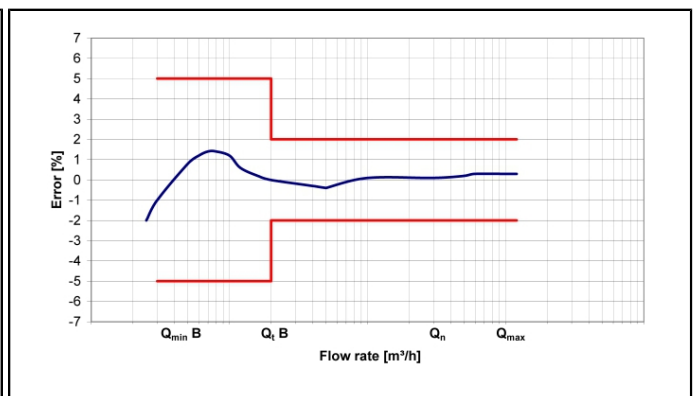
## SPECIAL VERSIONS

- With B or C coupling
- With non-return valve

## PRESSURE LOSS GRAPH / TYPICAL ERROR GRAPH



Pressure loss graph



Typical error graph

## HYDROMETER

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 Subject to technical adjustments