

# WESAN WP H E CHECK

BULK WATER METER | HYDRANT TESTER

**DIEHL**  
Metering



## APPLICATION

Fully electronic hydrant tester for checking the actual amount of water in m<sup>3</sup>/h (cold water up to 30 °C) available at the end of the pipe. Highly accurate recording of all billing data.

## FEATURES

- ▶ Hydrant tester comprises: Hydrant meter, Pressure gauge, carrying/ protective handle and input/output with fixed B-coupling
- ▶ Electronic counter module: Protection class IP 68, mechanical switch for changing the display, M-Bus interface to EN 1434-3, no automatic display change
- ▶ Lithium battery, lifetime up to 12 years
- ▶ Optical ZVEI interface equipped as standard
- ▶ Rotable integrator
- ▶ Single-line 7-digit display for easy meter reading
- ▶ Pulse output: 100 l/pulse forward, 100 l/pulse return

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## PULSE OUTPUTS

The outputs are open-collector circuits. The collector branch contains only  $0 \Omega$  resistance, i.e. there is no internal current limiting. If required, this must be provided externally by a collector resistance of  $1 \text{ k}\Omega$  (at  $30 \text{ V}$ ). The pulse outputs must be operated in floating mode if the M-Bus is connected.

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Output - type	Open collector (high current sink)	
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	$\mu\text{A/V}$	5/30
Max. reverse voltage without destroying outputs	V	6
Pulse duration	ms	125
Min. pulse pause	ms	125

## DISPLAY

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Display indication - counter module	LCD, 7-digit	
Display range - counter module	*	
Display range - pressure gauge	0 - 16 bar	

\*

0 - 999999: Current volume in  $\text{m}^3$

0.001 - 999.999: Current high resolution volume in  $\text{m}^3$

0.01 - 999.999: Instantaneous flow rate in  $\text{m}^3/\text{h}$

## TEMPERATURE AND PRESSURE

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Operating temperature	$^{\circ}\text{C}$	30
Operating pressure	bar	16

## TECHNICAL DATA

Nominal diameter	DN	mm	80
Nominal flow rate	$Q_n$	$\text{m}^3/\text{h}$	40
Maximum flow rate (short-term)	$Q_{\text{max}}$	$\text{m}^3/\text{h}$	150
Transition flow rate	$Q_t$	$\text{m}^3/\text{h}$	2
Minimum flow rate	$Q_{\text{min}}$	$\text{m}^3/\text{h}$	0.5
Starting flow rate		$\text{l/h}$	160
Flow rate at 0.1 bar pressure loss		$\text{m}^3/\text{h}$	115

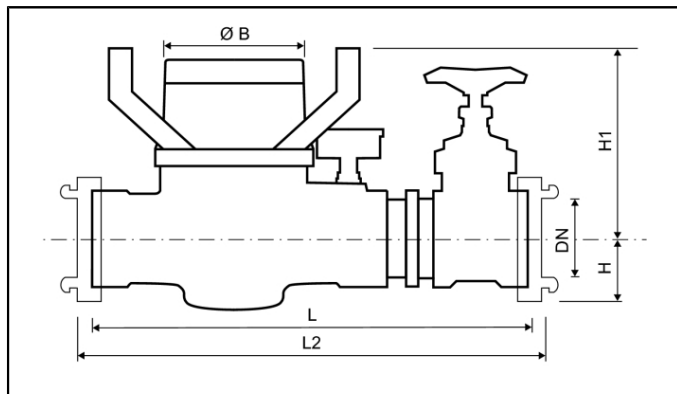
## APPROVAL

Nominal diameter	DN	mm	80
National	D 06 / 6.132.49		
Metrological class	B		

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## DIMENSIONS



Nominal diameter	DN	mm	80
Overall length	L	mm	460
Meter coupling	Fixed B-coupling (input/output)		
Height	H	mm	82
Height	H1	mm	138
Diameter	$\varnothing B$	mm	110
Width with carrying device		mm	180
Weight		kg	10.75