





JSC MASTER C+

VANE-WHEEL SINGLE-JET WATER METER DN25, DN32, DN40







Master C_+ is a single-jet dry dial water meter for precise measuring of supplied water consumption. With the modern structural solutions, it is possible to mount a radio or pulse overlay to enable remote reading. With the latest anti fraud solutions, this water meter provides the best protection against strong magnetic field. The water meter is compliant with the MID Directive for the measurement range corresponding to the value of R=160 (formerly metrological class C).

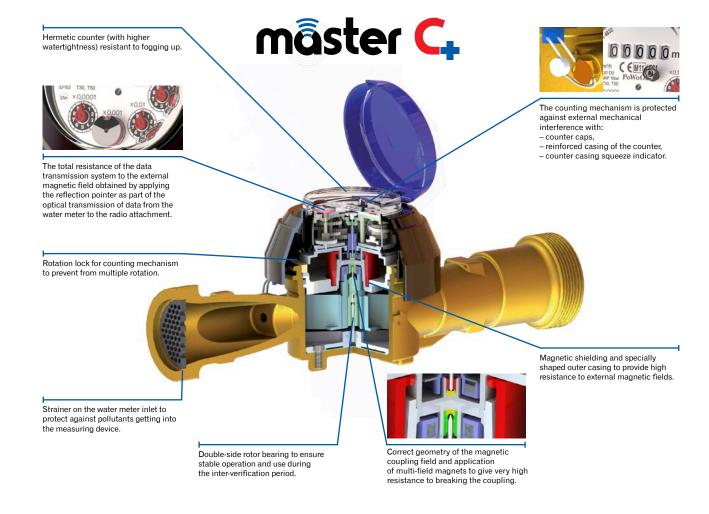
APPLICATION

Water supply systems for cold water up to 30° C, or water up to 50° C for the family houses and, public buildings. The water meter structure allows for installing it in both horizontal position with counter set upwards (H) or sideways (V), and in vertical position (V). Rotating counter allows easy reading from the meter. As part of the measuring system, it allows to measure the water consumption in buildings.



A & W Class
Former Class





ADVANTAGES

ECONOMY:

- accurate measurement determined by the R160 H coefficient (formerly class C)
- protection against:
 - strong magnetic field interference (magnetic shielding)
 - mechanical interference (squeeze indicator)
 - multiple counter rotation prevention

COMFORT OF USE:

- remote radio readings possibility
- easy to read with
 - any counter setting within 360°
 - hermetic counter resistant to fogging up
- reading possible with the use of the reed transmitter or pulse module.

RELIABILITY:

- proven and strong construction
- long service life achieved through the use of modern materials:
 - with high resistance to wear (bearings and plugs)
 - with surface structure minimizing flow resistance (rotor, seal plate)
- strainer on the inlet nozzle (measuring device protection)

SPECIAL FEATURES

- alarms signalling water meter fitted with a radio attachment can signal, for instance, removing or breaking the attachment, attachment operation interference, reverse flow, leaks, etc.
- design of the inlet channel stabilizes the flow rate
- double-side rotor bearing
- external control system



JS Master C₊ for cold water



JS Master C₊ for remote radio reading

In a standard version the JS Master C+ water meter is designed for mounting a radio attachment to enable radio data reading from the mobile terminal or the fix system.

COMPLIANCE WITH STANDARDS AND REGULATIONS

- Directive 2004/22/EC of the European Parliament and European Council of 31 March 2004 on measuring instruments,
- PN-ISO 4064-1÷5:2014(E) Water meters for dirnking cold water and hot water
- OIML R49:2004 and 2006 Water meters intended for the measurement of volumes of clean, cold or heated water
- EC-type examination certificate cold and hot water no. TCM 142/11-4832
- Classification of environmental, climatic and mechanical conditions class B acc. to PN-EN-14154-3:2005:A1.
- Classification of environmental mechanical conditions class MI acc. to RMG of 18 December 2006.
- Classification of environmental electromagnetic conditions class E1 acc. to RMG of 18 December 2006.

All materials used to manufacture the JS Master C_+ water meter have appropriate Hygienic Certificates allowing the product to come into contact with drinking water.

SAMPLE ORDER:

Water meter for:

- cold water - JS Master C₊ 6,3 water meter

- JS Master C₊ 6,3-NK water meter (25 dm³/pulse)

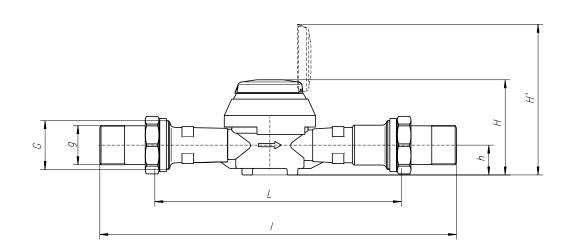
At additional request we supply:

water meter connectors



Table 1. TECHNICAL DATA

					Master C ₊ *			
Parameter					JSC6,3 JSC6,3-XX**	JSC10-G11/4 JSC10-G11/4-XX**	JSC10 JSC10-XX**	JSC16 JSC16-XX**
Nominal diameter		DN	mm	25	25	32	40	
Continuous flow rate		Q_3	m³/h	6,3	10		16	
Maximum flow rate		Q_4	m³/h	7,875	7,875 12,5 20			
Intermediate flow rate		H R160 V R63	Q ₂	dm³/h	63 160	100 254		160 406
Minimum flow rate		H R160 V R63	Q ₁	dm³/h	40 100	63 159		100 254
Starting value		-	dm³/h	13	21 31		31	
Q_2/Q_1 ratio		_	-	1,6				
Temperature class (nominal operating temperature)		_	_	T30 / T50				
Flow profile resistance classes		_	_	U0, D0				
Indications range		_	m³	99 999				
Indications precision		-	m³	0,00005				
Maximum pressure		P _{max}	MPa	1,6				
Maximum pressure loss		Δр	kPa	63				
Permissible limiting error within: $Q_2 \le Q \le Q_4$		٤	%	± 2 for cold water with the temperature of ≤30°C ± 3 for water with the temperature of >30°C				
Permissible limiting error within: $Q_1 \le Q < Q_2$		٤	%	± 5				
NK pulse reed transmitter		_	dm³/ imp	10 (standard pulsing); pulsing)		2,5; 10; 25; 250;		
			G	inch	G11/4	G11⁄4	G1½	G2
			h	mm	36			
			Н	mm	120			
Dimension		H'	mm	185				
		L	mm	165*** / 260	260		300	
		I	mm	380 440				
			D	mm	111			
Weight (without connection elements)	Without the transmitter		-	kg	2,0	2,2		2,5
	With the NK transmitter		_	kg	2,2	2,4		2,7

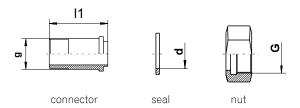


^{*} At special request IP68 counter

** Version: NK reed transmitter or NKP preequipment of water meter for the reed transmitter

*** Only in the R100 version

CONNECTION ELEMENTS

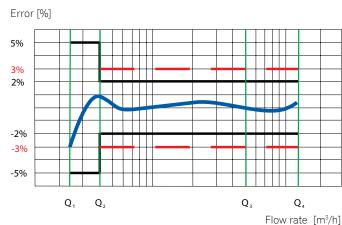


DN	G	g	d	l1
25	11/4"	1"	29	60
32	1½"	11/4"	36	60
40	2"	1½"	43	70

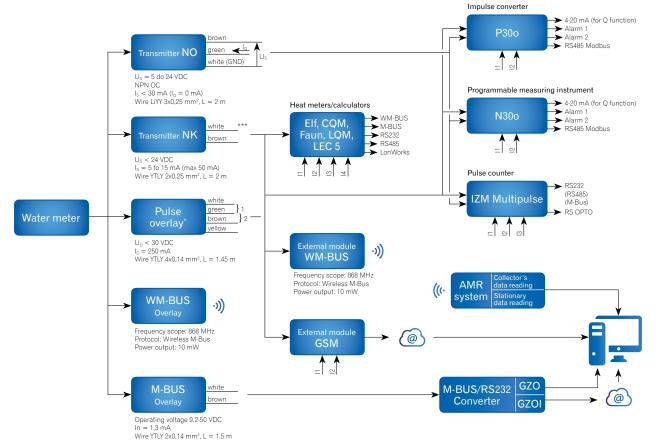
PRESSURE LOSS CHART

Pressure Loss kPa 200 8/8/ mbar 1000 100 500 50 100 10 5 50 10 1 5 0,5 1^{\perp} 0,1 100 [m³/h] 10

TYPICAL ERROR CHART



REMOTE READING TRANSMISSION, FLOW RATE, MEASUREMENT



^{*)} Pulse involves opening of connection 250 ms.













SURGE ARRESTERS

MINING EQUIPMENT

AUTOMATION













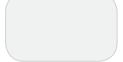


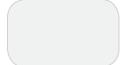
ELECTRICITY WATER HEAT GAS MEASUREMENT MEASUREMENT MEASUREMENT MEASUREMENT

SENSORS

IT SYSTEMS









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