

Single-jet vane-wheel water meter JS MASTER C+ IP68/IP65

DESCRIPTION

JS Master C+ IP68/IP65 is a single-jet vane-wheel dry water meter for precise measurement of water supply consumption. The advanced desong engineering ensures a high dynamic response to metering conditions and a high immunity to strong magnetic fields. The water meter is compatible with optical and induction data communication modules from Apator Powogaz S.A. for automatic wired or wirelss meter reading. The water meter is designed and manufactured to the MID (Measuring Instruments Directive) and complies with EN 14154, OIML R49 and ISO 4064 for the maximum measurement range of R160.



USAGE

Cold water supply systems (max. 50°C) in multifamily housing, industrial facilities, public facilities, and metering stations. The maximum operating pressure (MOP) is 16 bar. The water meter is designed for installation in a horizontal orientation with the counter upward (H) or sideways (H), and in a vertical orientation (V). The rotary counter provides easily readable indications directly from the fron face and works well in different installation orientations. The standard IP68 version is compatoble with directly installed induction data communication modules which feature #UTIP (Universal TI Plug)





Key features	 Output of event alarms: when equipped with an RF communication module, the wate meter can indicate removal or breaking off of the module, module operating disturban reverse flow, leak, etc. The rotor bearings, other solutions and materials used ensure stable metrology over the service life IP68 rating: the water meter is capavle of operation in extremely diffivult ambient conditions (ecen wen fully immersed in water), including with a data communication module installed Stable flow rate inlet bore design Available in the IP65 version with a reed pulse transmitter 					
REGULATORY AND STANDARDS COMPLIANCE	 Directive 2014/32/EC of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of measuring instruments OIML R49-1:2006 - Water meters intended for the metering of cold potable water and hot water. Part 1: Metrological and technical requirements OIML R49-2:2013 - Water meters intended for the metering of cold potable water and hot water. Part 2: Test methods OIML R49-3:2013 - Water meters intended for the metering of cold potable water and hot water. Part 3: Test methods OIML R49-3:2013 - Water meters intended for the metering of cold potable water and hot water. Part 3: Test methods EN 14154-1:2005+A2:2011 - Water meters. Part 1: General requirements EN 14154-3:2005+A2:2011 - Water meters. Part 2: Installation and conditions of use EN 14154-3:2005+A2:2011 - Water meters. Part 3: Test methods and equipment EN 14154-3:2007 - Water meters for cold potable water and hot water. Part 1: Metrological and technical requirements EN ISO 4064-2:2017 - Water meters for cold potable water and hot water. Part 2: Test methods EN ISO 4064-5:2017 - Water meters for cold potable water and hot water. Part 5: Installation requirements EN ISO 4064-5:2017 - Water meters for cold potable water and hot water. Part 5: Installation requirements EX Lype examination certificate no. SK 21-MI001-SMUU071 Classification of mechanical environment conditions: Class B1 (ref. Polish Regulation Dz.U. 2007.3.27) Classification of electromagnetic environment conditions: Class E1 (ref. Polish Regulation Dz.U. 2007.3.27) 					

TECHNICAL SPECIFICATIONS

Parametr					JS Master C+ IP68/IP65			
					JS6,3-02* JS6,3-07** JS6,3-XX***	JS10-G1 -02* JS10-G1 -07** JS10-G1 -XX***	JS10-02* JS10-07** JS10-XX***	JS16-02* JS16-07** JS16-XX***
Nominal diameter			DN	mm	25	25	32	40
Permanent flow rate			Q₃	m³/h	6,3	10	16	
Maximum flow rate			Q ₄	m³/h	7,875 12,5 20			20
Transitional flow rate	Cold water	H ↑ R160 V,H → R63	Q ₂	dm³/h	63 160	100 254		160 406
Maximum flow rate	Cold water	H↑ R160 V,H →R63	Q ₁	dm³/h	40 100	63 159		100 254
Starting flow		-	dm³/h	13	21		31	
Q ₂ /Q ₁ ratio			-	-	1,6			
Temperature class (rated operating temperature)			-	-	Т30/Т50			
Flow profile sensitivity class			-	-	UO, DO			
Indicating range			-	m ³	99,999			
Reading resolution			-	m ³	0,00005			
Maximum pressure			P _{max}	MPA	1,6			
Maximum pressure loss		Δр	kPa	63				
Maximum permissible error range: $Q_2 \le Q \le Q_4$		З	%	±2 for 0,1 to 30°C cold water ±3 for > 30°C water				
Maximum permissible error range: $Q_1 \leq Q < Q_2$			ε	%	±5			
NK reed relay pulse transmitter			-	dm³/ pulse	10C (standard pulse rate); 100 pulse rate); 100 10			100 (standard pulse rate); 10
Inlet and outlet pipe end threads		G	inch	G1	G1	G1	G2	
Height		h	mm		36			
		Н	mm	115				
		H1	mm	123				
			H2	mm	200			1
Length		L	mm	260	260 30		300	
				mm	380 440			440
Diameter			D	mm	111			[
Weight (w/o connection fittings)	W/o NK	transmitter	-	kg	2,0	2,2 2,5		2,5
	With NK transmitter		-	kg	2,2	2,4 2,7		2,7

Versions:

*Version -O2 - IP65 - rated counter mechanism; supports readout with induction communication modules (Ti) and optical communication modules (IR)

**Version -07 - IP68 - rated counter mechanism sealed with mineral glass enclousure with a copper guard; supports readout with induction communication modules (Ti)

***Version XX-NK or NKP reed relay transmitter; supports reed relay pulse transmitters



Contacts

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Your distributor:

The manufacturer reserves the right to change design, technical specifications and accesories without prior notice. K2024/05a