

JS SMART +

Single-jet vane-wheel dry water meters (DN15-20)

Application

Measurement of water flow and volumes up to 50°C and up to 90°C for hot water, in full-flow rated, closed-loop systems, MOP 16 bar (PN16). For installation in horizontal piping with the counter upward (**H** ↑) or to either side (**H** →) and in vertical piping with the counter sideways (**V**). The standard Smart+ water meters feature 8-barrel counters (IP65), SN+ anti-tamper magnetic protection, brass bodies, and pre-equipment for AMR (automatic meter reading) connectivity via communication modules.

Measurement range (MID):

- Cold water: **R100** - (**H** ↑); **R50** - **V**, (**H** →)
- Hot water: **R80** - (**H** ↑) or **R100****** - (**H** ↑); **R40** - **V**, (**H** →) or **R50****** - **V**, (**H** →)



Table 4. Basic technical data

Type		Q ₃ (m ³ /h)	DN (mm)	Length (mm)	Connection ends	Net weight (kg)
Cold water meters						
JS 1,6-02 Smart+	R100	1.6	15	110	G ³ / ₄	0.43
JS 1,6-03 Smart+	R80	1.6	15	110	G ³ / ₄	0.25
JS 2,5-02 Smart+	R100	2.5	15	110*	G ³ / ₄	0.43
JS 2,5-03 Smart+	R80	2.5	15	110	G ³ / ₄	0.25
JS 2,5-G1-02 Smart+	R100	2.5	20	130	G1	0.57
JS 4-02 Smart+	R100	4	20	130	G1	0.53
Hot water meters*						
JS90 1,6-02 Smart+	R100**	1.6	15	110	G ³ / ₄	0.43
JS90 1,6-03 Smart+	R80	1.6	15	110	G ³ / ₄	0.25
JS90 2,5-02 Smart+	R100**	2.5	15	110*	G ³ / ₄	0.43
JS90 2,5-03 Smart+	R80	2.5	15	110	G ³ / ₄	0.25
JS90 2,5-G1-02 Smart+	R100**	2.5	20	130	G1	0.57
JS90 4-02 Smart+	R100**	4	20	130	G1	0.53

Water meter versions:

- 02 – 8-barrel counter, brass body, communication module installation ready
- 03 – 8-barrel counter, composite body (available in JS 1,6 and JS 2,5 with 110 mm length, R100 for cold water and R80 for hot water)

Available on request:

- IP68 – counter ingress protection (IP) rating
- Ti/Ir – with a pointer for optical or induction reading

80 mm long versions (available in JS 2,5 and JS90 2,5 with brass bodies)

* Special water meter versions available on request:

- 02 – hardened bearing version (for hot water circulation systems)

**R increased for hot water

***Custom designs of body length for JS 2,5 DN15 and DN20:

- L = 80 mm ³/₄" > ³/₄";
- L = 115 mm ³/₄" > ³/₄";
- L = 115 mm 1" > 1";
- custom thread sizes, e.g. L = 115 mm 7/8" > ³/₄"

Product features

- SN+: strong external EM fields immunity exceeds the standard requirements
- Pre-equipped for optional data communication modules
- Reliable readings in compliance with the latest MID requirements
- Easy counter reading
- Fogging-resistant hermetical counter (by increased sealing)
- Counter mechanism rotation lock of 358°
- External mechanical tamper protection
- Frost-damage protection
- Water meter outlet end pre-equipped for an optional check valve
- Double-sided rotor bearings