PREPAID, LEAKAGE AND SHUT-OFF CONTROL

XY-15 / XY-20 Valve Control Ultrasonic Water Meter

A transit-time ultrasonic meter with the shut-off valve built into the same body. Nothing rotates in the water path, so the reading holds through grit, scale and the low-flow trickle that would stall a mechanical meter — and the utility can still close the supply remotely.

DN15–DN25	Class 2	R100–R400	<10 s	IP68	≥10 years
NOMINAL SIZE	ISO 4064	RANGE RATIO	VALVE OPEN / CLOSE	PROTECTION	BATTERY



Production unit. Transit-time measuring tube with an integrated gear-motor ball valve.

- Fully electronic: no moving measuring parts, so grit and scale cannot slow the reading.
- Valve in the same body — open or close in under 10 s, rated for 5,000+ cycles.
- Five alarms reported: low battery, leakage, reverse flow, empty pipe, valve fault.
- Horizontal or vertical, no straight pipe run required.

SPECIFICATION

Model	XY-15 / XY-20
Nominal size	DN15 / DN20 / DN25 (1/2″ – 1″)
Q3 (nominal flow)	2.5 / 4.0 / 6.3 m³/h
Measuring principle	Transit-time ultrasonic, bidirectional
Accuracy class	Class 2 (ISO 4064)
Flow ratio	R100 – R400 (R100, R160, R250, R400 available)
Max. working pressure	1.0 MPa (PN10) standard · up to 2.5 MPa on request
Temperature class	T30 – T90
Operating temperature	−25 to +55 °C
Body material	Stainless steel / brass, fully electronic, no moving parts
Valve	Integrated ball valve, gear motor, <10 s, 5,000+ cycles
Display	9-digit LCD, one-button operation
Battery	3.6 V DC Li-SOCl₂, ≥10 years, maintenance-free
Protection	IP68 sealed housing
Wired interface	RS485 / M-Bus
Wireless uplink	4G Cat.1 / NB-IoT / LoRaWAN / Wi-SUN
Installation	Horizontal or vertical, no straight pipe run required

ORDERING INFORMATION

State the bore, whether the valve is driven from the head-end over the same module, and the prepaid or credit-control logic you run. Model code: **XY-15 valve-control ultrasonic meter, DN15, LoRaWAN**.

CONTACT

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