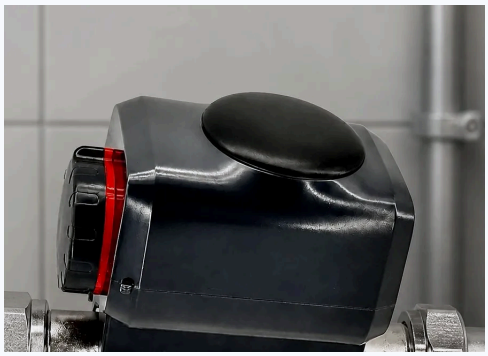
RESIDENTIAL REVENUE METERING

DN15 LoRaWAN Ultrasonic Water Meter

A 1/2-inch transit-time ultrasonic meter with nothing in the water path to wear — no impeller, no gear train, no valve. It reads in both directions and holds Class 2 accuracy down to the low-flow band.

DN15 (1/2″)	Class 2	R1000 – R400	IP68	≥10 years	1.0 MPa
NOMINAL DIAMETER	ACCURACY	RANGE RATIO	PROTECTION	BATTERY	PN10, 2.5 ON REQUEST



Production unit. Valveless straight-through body, threaded both ends, sealing ring at the joint, flow-direction arrow cast on the side.

- No moving parts in the bore — grit and scale cannot slow the reading down.
- Bidirectional: reverse flow is measured and totalled, not ignored.
- One wireless module per meter, pre-installed at the factory.
- IP68 sealed head — a wet pit is a reading, not a service call.

SPECIFICATION

Measurement principle	Transit-time ultrasonic, bidirectional
Accuracy class	Class 2 to ISO 4064
Range ratio (R)	R1000 / R800 / R630 / R500 / R400
Display	9-digit LCD with menu button
Protection grade	IP68 — fully submersible
Working pressure	1.0 MPa (PN10) · up to 2.5 MPa on request
Operating temperature	−25 to +55 °C
Battery	3.6 V lithium, ≥10 years, maintenance-free
Wired communication	RS-485 / M-BUS
Wireless module	LoRaWAN / NB-IoT / 4G Cat.1 / Wi-SUN — one per meter
Local configuration	Bluetooth / IR
Connection	Threaded, both ends; sealing ring at the joint
Body	Valveless straight-through tube, cast flow-direction mark
Installation	Horizontal or vertical, flow direction marked on the body

SERIES — PICK THE SIZE AT THE SERVICE CONNECTION

SIZE	THREAD	TYPICAL POINT OF USE	RANGE RATIO
DN15 (1/2″)	1/2″ threaded	Single apartment, small dwelling	R1000 / R800 / R630 / R500 / R400
DN20 (3/4″)	3/4″ threaded	Apartment block riser, small commercial unit	R800 / R630 / R500 / R400
DN25 (1″)	1″ threaded	Building inlet, workshop, irrigation branch	R630 / R500 / R400

UPLINK OPTIONS — ONE MODULE PER METER

INTERFACE	WHEN IT IS THE RIGHT CHOICE
LoRaWAN	Own or shared gateway network — no operator dependency for the data path
NB-IoT	No gateway on site; licensed network coverage
4G Cat.1	Higher bandwidth or more frequent reads
Wi-SUN	Self-forming mesh across many nodes

Only one wireless module is fitted per meter. Wired RS-485 / M-BUS is available alongside it.

ORDERING INFORMATION

Flow parameters and the wireless module are fixed per order — state the network and the flow range you must cover and the exact configuration is confirmed in the quotation. Model code for this datasheet: **Ultrasonic water meter, DN15 (1/2″) — LoRaWAN**. Flow-direction and dimensions are confirmed per model at order; ask for the dimension drawing.

CONTACT

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Specifications subject to change without notice. Rev. 2026-11