



RHINO

Smart Water Meter

with built-in leak detection



The **RHINO Smart Water Meter** is designed to provide utilities and commercial users with reliable measurement, intelligent control, and enhanced operational insight.



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TECHNICAL SPECIFICATIONS:

Accuracy Class: Class 1.5

Standards Compliance: AWWA C715-18 (R22) – Cold Water Meters: Electromagnetic and Ultrasonic Type

CALCULATOR UNIT – TECHNICAL PARAMETERS:

Display: Multi-angle LCD display

Operation: Single-touch button for multi-function operation

Resolution: Cumulative Flow: 0.1 GAL / 0.001 m³
Instantaneous Flow: 0.1 GPM / 0.1 L/min
Temperature: 0.1°C / 0.1°F
Pressure: 0.1 PSI / 0.1 kPa

Power Supply: Built-in 3.6V ER34615 lithium battery + lithium-ion capacitor
External power supply: 5–12 DCV

Power Consumption: Less than 0.25 mW

Battery Life: Over 6 years under normal conditions (ambient temperature 20°C, relative humidity < 60%)

Communication: Wired: M-Bus
Protocol: EN13757
Baud Rate: 2400 bps, even parity, 8 data bits, 1 stop bit

Power Failure Protection: Retains cumulative flow and timestamp data during power outages; automatically resumes normal operation upon power restoration

Environmental Classification:

Class 0; Ambient temperature: -25°C to 55°C (fluid temperature ≥ 0.1°C); Atmospheric pressure: 86–106 kPa

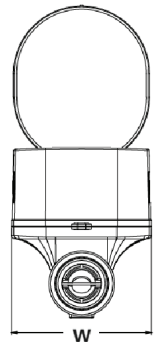
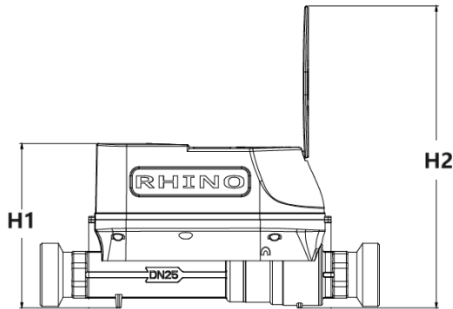
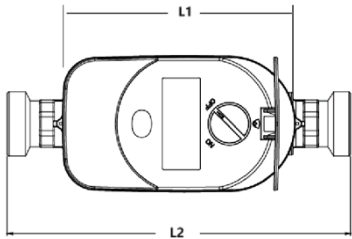
EMC Environment: Class E1 – Residential, commercial, and light industrial settings

Ingress Protection: IP68



FLOW SENSOR – TECHNICAL PARAMETERS

PARAMETER	DN20	DN25	DN40	DN50
Pipe Length (mm)	190 / 229	273	324	387
Minimum Flow Rate (m³/h)	0.034	0.068	0.136	0.227
Typical Flow Range (m³/h)	0.114 – 6.8	0.17 – 11.4	0.45 – 22.7	0.57 – 36.3
Starting Flow (m³/h)	0.0015	0.0025	0.015	0.030
Threaded Connection (inch)	NPT 1	NPT 1 1/4	NPT 2	NPT 2 1/2
Pressure Loss Classification	Δp63 (≤ 63 kPa)	Δp40 (≤ 40 kPa)	Δp40 (≤ 40 kPa)	Δp40 (≤ 40 kPa)



DIMENSIONS

MODEL	H1 (MM)	H2 (MM)	BODY LENGTH L1 (MM)	BASE LENGTH L2 (MM)	WIDTH W (MM)	THREAD (INCH)
515C-DN20 (Short)	104	195.35	161	190	89	NPT 1
515C-DN20 (Long)	104	195.35	161	229	89	NPT 1
515C-DN25	109.25	200.6	161	273	89	NPT 1 1/4
515C-DN40	148	244.4	180	225	100	NPT 2
515C-DN50	159	255.4	180	245	100	NPT 2 1/2

- Accuracy Grade:** Class 1.5: ±5% (low), ±1.5% (high) for respective zones
- Connection Type:** External threaded connection
- Pressure Rating:** MAP16 (Operating pressure 1.6 MPa)
- Temperature Class:** T30 / T50
- Pressure Measurement Range:** 0–232 PSI / 0–1.6 MPa

- Flow Profile Sensitivity Class:** U0 / D0
- Bidirectional Flow:** Dual-direction metering (forward metering, reverse detection supported)
- Measured Medium:** Water (pipeline must remain full)
- Installation Orientation:** Horizontal or vertical (upward)