



The **Next Hydrus** is a highly accurate, lead-free ultrasonic smart water meter for residential, commercial and industrial installations.

Nothing Moves, Nothing Wears

The Next Hydrus uses ultrasonic technology to register flow, enabling an operating range beginning as low as 0.08 GPM and staying within $\pm 1.5\%$ accuracy across the full range. Made of durable materials without moving parts, it's built to hold that performance for the long haul.

Fits the Pit You Already Have

Horizontal, vertical, upside down, tight against a wall: orientation simply doesn't matter to the Next Hydrus. Sizes run from 5/8" through 2" on standard lay lengths, so retrofits drop in without re-plumbing.

A Meter That Speaks Up

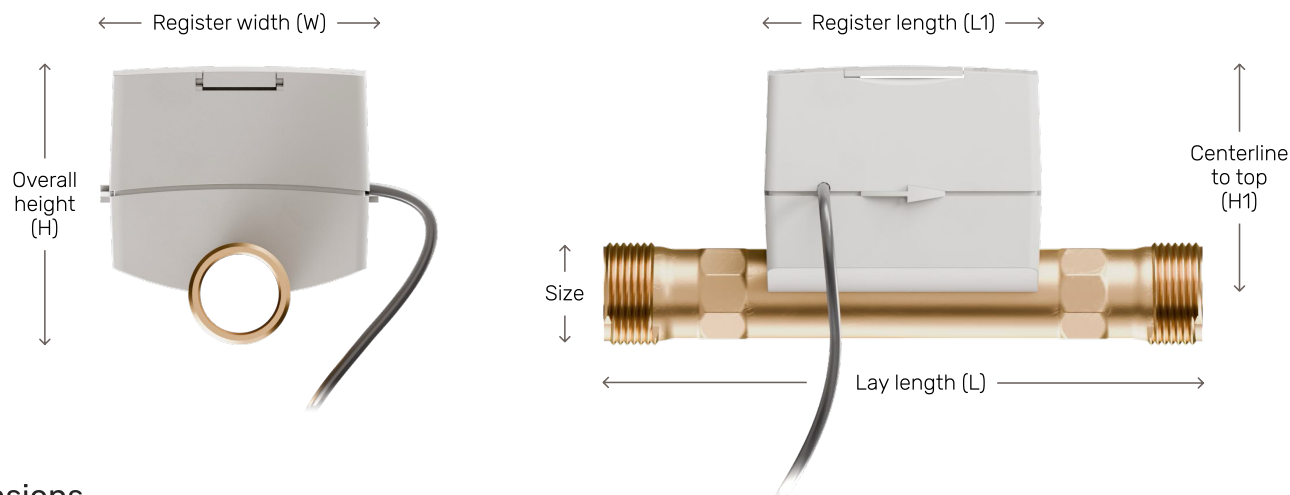
Every Next Hydrus watches for trouble on its own and reports it across nine alert types. Forty-two days of hourly consumption history stay on board for dispute resolution and usage investigations, with temperature and diagnostics information available alongside the read.

Twenty Years of Quiet Service

Two 3.6 VDC lithium cells power the meter for up to 20 years, and a 9-digit LCD shows totalized volume, live flow, and active alerts right at the lid. Set it, read it, and leave it alone.

Key Benefits

- Extreme low-flow accuracy and long term measurement stability
- Integrated leak detection
- Mountable in any installation position
- Lead-free body
- IP68 rated
- 42 days of hourly data storage
- Communication protocol includes temperature, alerts, error messages, etc.



Dimensions

Size	Lay length (L)	Register length (L1)	Register width (W)	Overall height (H)	Centerline to top (H1)	Net weight
5/8" x 1/2"	7 1/2"	3.5"	3.7"	4.0"	2.7"	2.8 lbs
5/8 x 3/4"	7 1/2"	3.5"	3.7"	4.0"	2.7"	2.8 lbs
3/4"S	7 1/2"	3.5"	3.7"	4.0"	2.7"	2.8 lbs
3/4"	9"	3.5"	3.7"	4.0"	2.7"	3.1 lbs
1"	10 3/4"	3.5"	3.7"	4.2"	2.8"	3.5 lbs
1 1/2"	13"	3.5"	3.7"	5.3"	3.3"	14.1 lbs
2"	17"	3.5"	3.7"	5.8"	3.3"	19.2 lbs

Approvals

- Meets or exceeds applicable sections of AWWA/ANSI C715
- Complies with NSF/ANSI/CAN 61 & 372, Annex F/G
- Complies with FCC Part 15 B

Environment

- IP68 protection class, suitable for submerged installations
- Mountable in any installation position

Power

- Two 3.6 VDC lithium batteries
- Battery life up to 20 years

Outputs

- 9-digit programmable resolution encoder output, industry standard protocol
- ASCII output for compatibility with most AMR/AMI systems
- Encoded output includes temperature information, alerts, and error messages

Applications

Size	Connection	Lay Length	Operating Flow Range (GPM)	Low flow range (GPM)	Starting flow (GPM)
5/8" x 1/2"	3/4" - 14 NPSM	7 1/2"	0.08 - 22	0.025 - 0.08	0.011
5/8 x 3/4"	1" - 11 1/2 NPSM	7 1/2"	0.08 - 22	0.025 - 0.08	0.011
3/4"S	1" - 11 1/2 NPSM	7 1/2"	0.1 - 32	0.04 - 0.1	0.017
3/4"	1" - 11 1/2 NPSM	9"	0.1 - 32	0.04 - 0.1	0.017
1"	1 1/4" - 11 1/2 NPSM	10 3/4"	0.1 - 55	0.055 - 0.1	0.025
1 1/2"	Oval flanges	13"	0.16 - 100	0.1 - 0.16	0.038
2"	Oval flanges	17"	0.8 - 170	0.55 - 0.8	0.11

Performance

Registers flow as low as 0.011 GPM (5/8" x 1/2" and 5/8" x 3/4" sizes)

±1.5% accuracy across the operating flow range

±5% accuracy across the low flow range

Sizes up to 2" support flow rates up to 170 GPM

Data & Display

42 days of hourly consumption and alert data storage

LCD display, 9-digit, with additional symbols, display counter, and unit indicators

Flow and volume units: gpm, gal, ft³, m³

Displayed values: display test, total volume, firmware version and checksum, current flow, errors and alerts (additional values based on configuration)

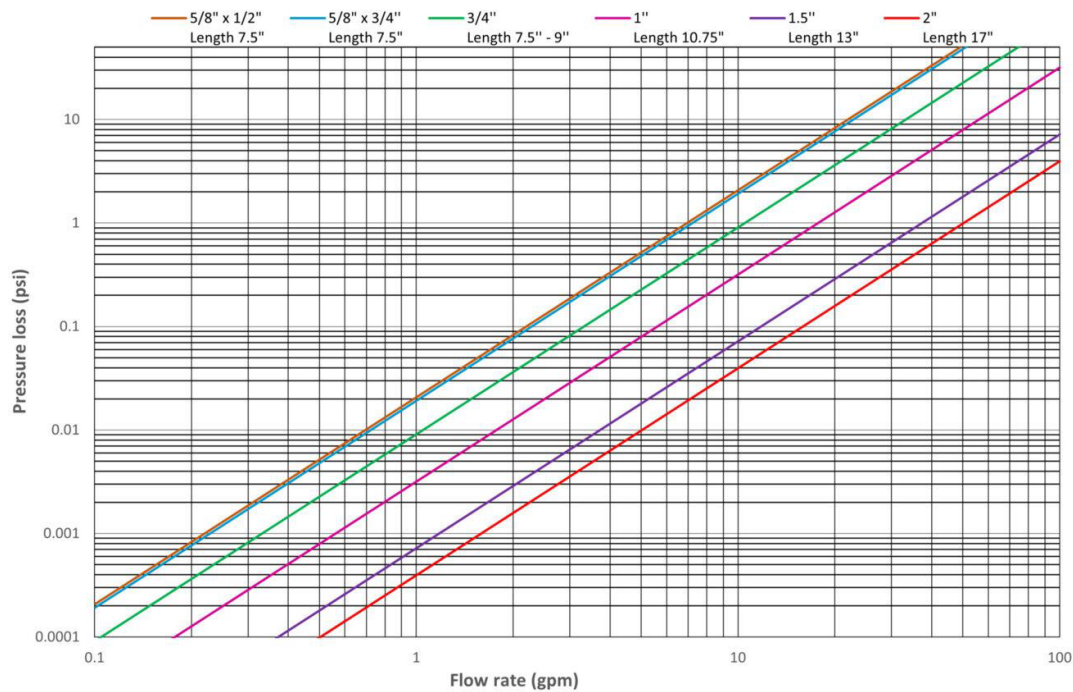
Temperature

	Range (F)	Range (C)
Potable Water	33° to 122°	0.6° to 50°
Ambient (Operating)	-13° to 131°	-25° to 55°
Ambient (Storage)	-13° to 158°	-25° to 70°

Storage above 95° F | 35° C is limited to a maximum of 4 weeks.

Pressure

Up to 300 PSI maximum operating pressure



Materials

Component	Material
Measuring Pipe	Lead-free copper alloy (stainless steel on 1 1/2" and 2")
Register Housing	Engineered polymer
Transducers	Composite
Reflectors	Stainless steel

Warranty

5/8" through 1" sizes: 20-year limited warranty as detailed in the complete Next Hydrus Warranty – 5/8" through 1" Sizes document.

1 1/2" and 2" sizes: 10-year limited warranty as detailed in the complete Next Hydrus Warranty – 1 1/2" and 2" Sizes document.

Alerts

- Hardware flow
- Leak detection
- Backflow
- Air in pipe
- Low battery
- Undersized meter
- No consumption
- High temperature
- Freezing risk

Contact

For additional information or assistance, please visit our Support Center or contact our Product Support Team:

support.nextmeters.com

(844) 538-8203

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