

## ULTRASONIC FLOW METERS

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## ULTRASONIC FLOW METERS FROM AW-LAKE:

Introducing the AW-Lake Ultrasonic Flow Meter family—a cutting-edge solution designed to overcome the challenges posed by "difficult liquids" that can wreak havoc on conventional flow meters. These meters excel in applications involving chemicals, viscous fluids, and abrasives, providing unparalleled reliability and accuracy.

Our non-intrusive, clamp-on ultrasonic meters are engineered to easily be installed on the outside of pipes with internal diameters ranging from 1/2" to a substantial 48", making them incredibly versatile for various industries. These meters are housed within robust NEMA 4X polycarbonate enclosures, ensuring their durability in water- and dust-prone environments, and delivering enhanced performance across a wide spectrum of applications.

Whether it's for cooling water, condenser water, or water/glycol solutions, our water inline ultrasonic meters are specifically crafted to meet your needs in pipes ranging from 1/2" to 2-1/2". Discover the benefits of precise, non-invasive flow measurement that safeguards your processes and enhances efficiency.

**Exceptional Quality:** Our manufacturing facilities maintain the highest quality standards and superior machining technology.

**Industry Experience:** A purchase from AW-Lake comes with flow measurement expertise and industry experience to make the process as smooth as possible.

**Global Support:** With offices in the US, Europe, China and Singapore, we are strategically positioned to support our customers around the globe.



## INLINE ULTRASONIC FLOW METERS

### WIN – WATER INLINE ULTRASONIC FLOW METER



The Water Inline Ultrasonic Flow Meter was designed for precise measurement of water and water/glycol solutions in small pipes, ranging from 1/2" to 2 1/2" in diameter. This innovative meter boasts a no-moving-parts design, ensuring reliable operation across a broad flow range with exceptional accuracy, even at low flow rates. It offers a cost-effective solution, featuring threaded process connections, a 4-20mA analog output, and a scaled dry contact pulse output for totalization, as well as Modbus RTU compatibility.

**Line Sizes:** 1/2 inch to 2-1/2 inch

**Temperature Rating:**

Fluid: 32°F to 250°F

Ambient: -13°F to 131°F

**Pressure Rating:** 400 PSI

**Accuracy:** ±1.0% of reading over 25:1 turndown; ±2.0% of reading over 100:1 turndown

**Repeatability:** ±0.20%

# CLAMP-ON FLOW METERS

## CUTT – CLAMP-ON ULTRASONIC FLOW METER



The CUTT Clamp-On Ultrasonic Flow Meter securely attaches to the exterior of metal, concrete, and plastic pipes. The NEMA4X polycarbonate enclosure allows for installation in challenging environments. These non-invasive clamp-on sensors provide advanced flow measurement capabilities without causing pressure drop, making them suitable for diverse applications, including food processing plants, chemical facilities, oil refineries, and more.

**Line Sizes:** 1/2 inch to 48 inch

**Temperature Rating:**

Transducer: -40°F to 300°F

Electronics: -5°F to 140°F

**Accuracy:** ±1.0% of reading from 1.5 to 40 ft/sec and ±0.015 ft/sec for velocity below 1.5 ft/sec

**Repeatability:** ±0.25%

**Outputs:** 4-20mA / 0-5V Analog standard; Modbus RTU or HART optional

**Hazardous Area Certification:** Non-Incendive for Class I, Division 2, Groups A, B, C, D  
Optional: Intrinsically Safe for Class I, Division 1, Groups A, B, C, D

## CUTT-P – PORTABLE CLAMP-ON ULTRASONIC FLOW METER



The Portable Clamp-On Ultrasonic Flow Meter is a versatile solution for measuring the flow of clean, corrosive, and non-aerated fluids in metal or plastic pipes. It offers easy deployment with external transducers, making it suitable for diverse applications. The rugged IP67 housing makes it ideal for temporary or permanent installations in challenging environments. This user-friendly meter features advanced flow measurement capabilities, an onboard Datalogger, and long battery life without causing pressure drops.

**Line Sizes:** 1/2 inch to 48 inch

**Temperature Rating:**

Transducer: -40°F to 300°F

Electronics: -5°F to 140°F

**Accuracy:** ±1.0% of reading or ±0.015 ft/sec

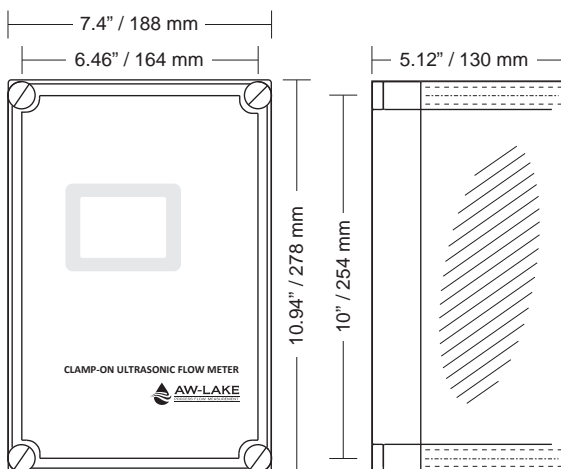
**Repeatability:** ±0.25%

**Data Logger:** million points

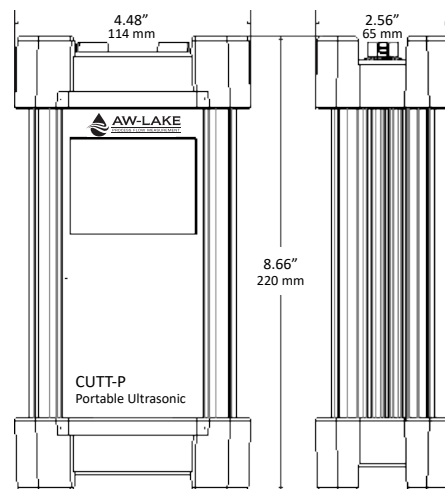
**Power Input:** Built-in rechargeable lithium polymer battery for up to 15 hrs of continuous use

## ENCLOSURE DIMENSIONS

### CUTT CLAMP-ON



### CUTT-P PORTABLE





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