

Be Confident with Sustained Accuracy Over Time

Neptune® MACH 10® Ultrasonic Meter



The MACH 10® ultrasonic water meter features solid state metrology with no degradation of accuracy over time. Combined with a corrosion-resistant, lead-free, high-copper alloy maincase, the MACH 10 is built to withstand demanding service conditions and deliver sustained accuracy over the life of the meter.

- Sizes 1½" and 2"
- Extended low-flow range and accuracy
- No maintenance
- Accuracy sustained over meter life
- Advanced ultrasonic technology
- MACH10®)R900i™ features interleaved messages to support AMR, AMI and the open-standards LoRaWAN™ AMI network simultaneously
- Supports Neptune Network-as-a-Service (NaaS) managed AMI service

Specifications

AWWA C715 Compliant

NSF/ANSI 61 Certified

UL 327B Certified

Application

- Cold water measurement of flow in potable and reclaim/secondary water applications.

Maximum Operating Water Pressure

- 175 psi

Operating Water Temperature Range

- +33°F to +122°F (+0.5°C to +50°C)

Options

Sizes

- 1½"
- 2"

Units of Measure

- U.S. gallons, Imperial gallons, cubic feet, cubic metres

Meter Options

- Potable water
- Reclaim water

Environmental Conditions

- Operating temperature: +14°F to +149°F (-10°C to +65°C)
- Storage temperature: -40°F to +158°F (-40°C to +70°C)

Warranty

- Neptune provides a limited warranty with respect to its MACH 10 line of ultrasonic meters for performance, materials, and workmanship.

System Compatibility

- Available in MACH 10)R900i and MACH 10®)TC configurations for an integrated radio solution.

Operating Characteristics

Meter Size	Normal Operating Range @ 100% Accuracy (+/- 1.5%)	Safe Maximum Operating Capacity	Extended Low Flow @ 100% Accuracy (+/- 3.0%)
1½"	0.80 to 125 U.S. gpm	125 U.S. gpm	0.30 U.S. gpm
2"	1.50 to 160 U.S. gpm	160 U.S. gpm	0.50 U.S. gpm

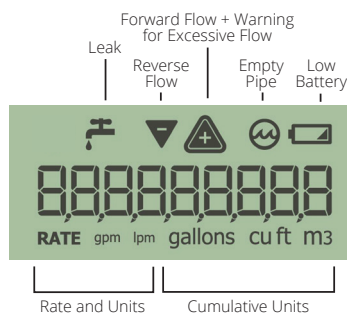
Dimensions

Meter Size	Length	Height	Flanges
1½"	10"	6¼"	Oval
	13"	6¼"	Oval
	12⅝"	6¼"	Internal Thread
	12⅝"	6¼"	External Thread
2"	10"	6½"	Oval
	15¼"	6½"	Oval
	17"	6½"	Oval
	15¼"	6½"	Internal Thread
	15¼"	6½"	External Thread

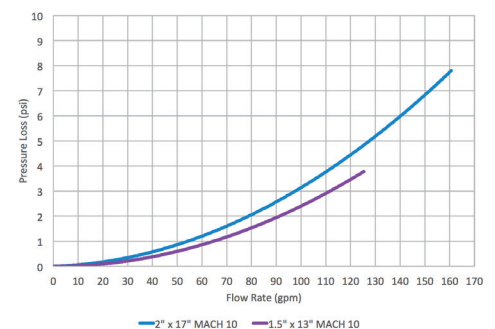
Registration

High Resolution (8-digit reading)	1½"	2"
1 U.S. Gallons	√	√
1 Imperial Gallons	√	√
0.1 Cubic Feet	√	√
0.01 Cubic Metres	√	√

LCD Display



Pressure Loss



LoRa Alliance Certified™



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