

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 5/8", 3/4", and 1"
- Extended low-flow range and accuracy
- No maintenance
- Accuracy sustained over meter life
- Advanced ultrasonic technology
- MACH 10®iR900i™ 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

UL327B Certified (¾", 1")

Application

- Cold water measurement of flow in residential potable, combination potable and fire service, 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

- ⅝", ⅝" x ¾"
- ¾", ¾" x 1"
- 1", 1" x 1¼"

Units of Measure

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

Meter Options

- Potable water
- Reclaim water
- Residential fire service (combo or standalone meter service lines)

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

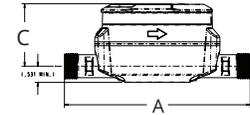
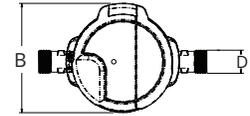
- Neptune provides a limited warranty with respect to its MACH 10 residential line of ultrasonic meters for performance, materials, and workmanship.

System Compatibility

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

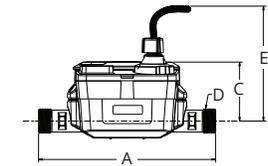
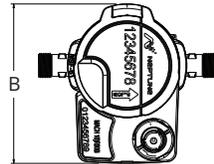
MACH 10® Dimensions

Meter Size	A	B	C	D NPSM
⅝"	7½"	4⅞"	2½"	¾" - 14
⅝" x ¾"	7½"	4⅞"	2½"	1" - 11½"
¾"	9"	4⅞"	2⅞"	1" - 11½"
¾" SL	7½"	4⅞"	2⅞"	1" - 11½"
¾" x 1"	9"	4⅞"	2⅞"	1¼" - 11½"
1"	10¾"	4⅞"	2⅞"	1¼" - 11½"
1" x 1¼"	10¾"	4⅞"	2⅞"	1½" - 11½"



MACH 10®)R900i™ DIMENSIONS

Meter Size	A	B	C	D NPSM	E
⅝"	7½"	6¾"	2½"	¾" - 14	5⅞"
⅝" x ¾"	7½"	6¾"	2½"	1" - 11½"	5⅞"
¾"	9"	6¾"	2⅞"	1" - 11½"	5⅞"
¾" SL	7½"	6¾"	2⅞"	1" - 11½"	5⅞"
¾" x 1"	9"	6¾"	2⅞"	1¼" - 11½"	5⅞"
1"	10¾"	6¾"	2⅞"	1¼" - 11½"	6⅞"
1" x 1¼"	10¾"	6¾"	2⅞"	1½" - 11½"	6⅞"



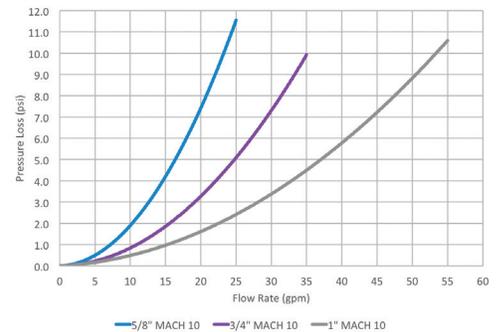
Operating Characteristics

Meter Size	Normal Operating Range @ 100% Accuracy (+/- 1.5%)	AWWA C715 Standard Type 1	Extended Low Flow @ 100% Accuracy (+/- 3%)
⅝"	0.10 to 25 U.S. gpm 0.02 to 4.55 m³/h	0.2 to 20 U.S. gpm 0.23 to 4.5 m³/h	0.05 U.S. gpm 0.01 m³/h
¾"	0.10 to 35 U.S. gpm 0.02 to 6.82 m³/h	0.5 to 30 U.S. gpm 0.45 to 6.8 m³/h	0.05 U.S. gpm 0.01 m³/h
1"	0.40 to 55 U.S. gpm 0.11 to 11.36 m³/h	0.75 to 50 U.S. gpm 0.75 to 11.4 m³/h	0.25 U.S. gpm 0.03 m³/h

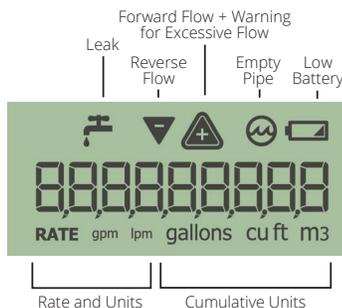
Registration

High Resolution (8-digit reading)	
0.1	U.S. Gallons
0.1	Imperial Gallons
0.01	Cubic Feet
0.001	Cubic Metres

Pressure Loss



LCD DISPLAY



LoRa Alliance Certified™



neptune.com

Neptune Technology Group

1600 Alabama Highway 229

Tallahassee, AL 36078

800-633-8754 f 334-283-7293