

OMNI™ T²

2" OMNI T² Meter without Strainer

DESCRIPTION

Model: The OMNI^{T2} meter operation is based on advanced Floating Ball Technology (FBT) with an operating range of 1.0 GPM (.23 m³/hr) @ 95% min. to 250 GPM (57 m³/hr) @ 100% +/- 1.5% registration of actual throughput. The meter is also rated for continuous flows up to 200 GPM (45 m³/hr).

Conformance to Standards: The OMNI^{T2} meter meets and far exceeds the most recent revision of ANSI / AWWA Standard C701 class II standards. Each meter is performance tested to ensure compliance. All OMNI meters are NSF Approved to the latest standards.

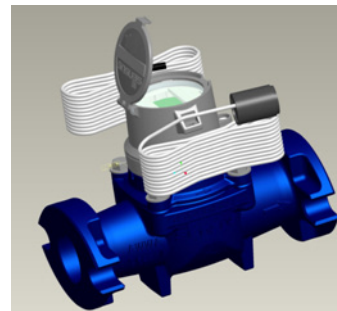
Performance: The patented measurement principles of the OMNI^{T2} meter assure enhanced accuracy ranges, an overall greater accuracy, and a longer service life than any other comparable class meter produced. The T² meter has no restrictions as to sustained flow rates within its continuous operating range. The floating ball measurement technology allows for flows up to its rated maximum capacity without affecting undue wear or accuracy degradation.

Construction: The T² meter consists of two basic assemblies; the maincase and the measuring chamber. The measuring chamber assembly includes the "floating ball" impeller with a coated titanium shaft, hybrid axial bearings, integral flow straightener and an all electronic programmable register with protective bonnet. The maincase is made from industry proven Ductile Iron with an approved NSF epoxy coating. Maincase features are; easily removable measuring chamber and unique chamber seal to the maincase using a high pressure o-ring.

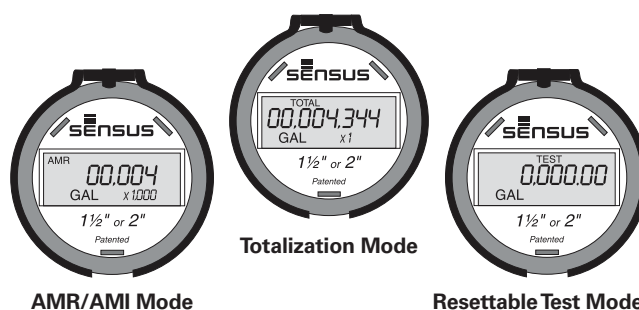
OMNI Electronic Register: The T² electronic register consist of a hermetically sealed register with an electronic pickup containing no mechanical gearing. The large character LCD displays AMR, Totalization and a Resettable Test Totalizer. OMNI register features; AMR resolution units that are fully programmable, Pulse output frequency that are fully programmable, Integral customer data logging capability, Integral resettable accuracy testing feature compatible with AR-5000 Testing Assistant Program, Large, easy-to-read LCD also displays both forward and reverse flow directions and all with a 10-year battery life guarantee.

Magnetic Drive: Meter registration is achieved by utilizing a fully magnetic pickup system. This is accomplished by the magnetic actions of the embedded rotor magnets and the ultra sensitive register pickup probe. The only moving component in water is the "floating ball" impeller.

Measuring Element: The revolutionary thermoplastic, hydro dynamically balanced impeller floats between the bearings. The Floating Ball Technology (FBT) allows the measuring element to operate virtually without friction or wear, thus creating the extended upper and lower flow ranges capable on only the OMNI^{T2} meter.



2" OMNI^{T2} without Strainer



AMR/AMI Mode

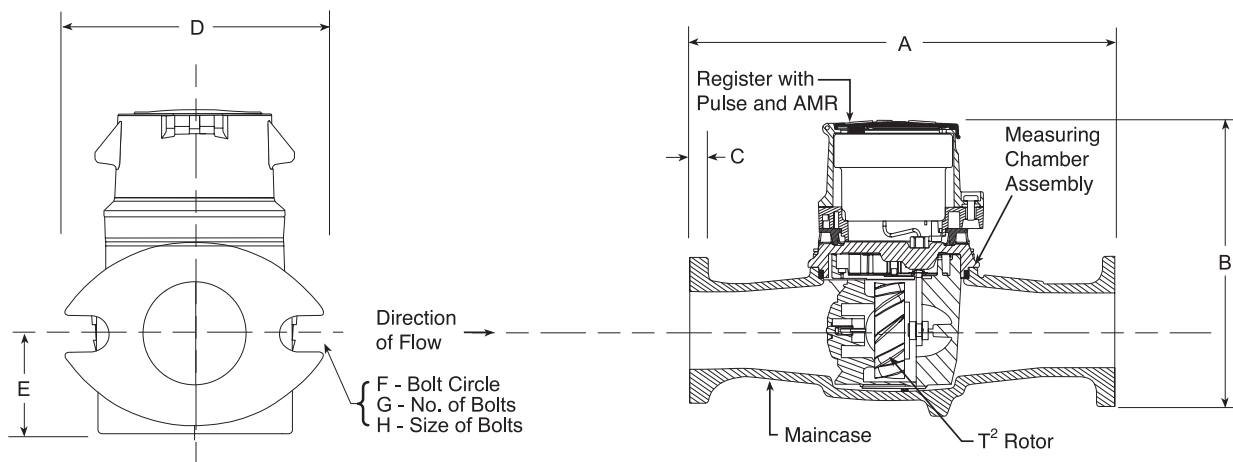
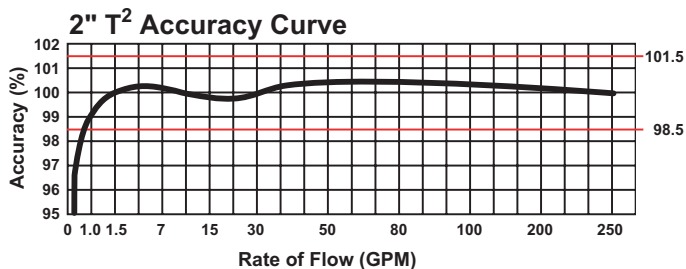
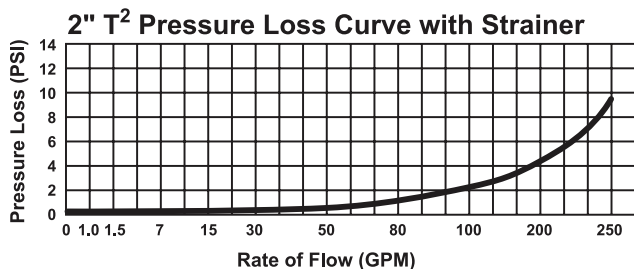
Totalization Mode

Resettable Test Mode

Maintenance: The OMNI^{T2} meter is designed for easy maintenance. Should any maintenance be required, the measuring chamber can be removed independently. Parts and or a replacement measuring chamber may be utilized in the event repairs are needed. Replacement and Measuring Chamber Exchange are available under the Sensus MMP Program for the T² meters and this program may also be utilized for retrofitting to competitive meters to achieve increased accuracy and extended service life.

AMR / AMI Systems: Meters and encoders are compatible with current Sensus and various competitive AMR/AMI systems.

Guarantee: Sensus OMNI^{T2} Meters are backed by "The Sensus Guarantee." Ask your Sensus representative for details or see Bulletin G-500.



DIMENSIONS AND NET WEIGHTS

Meter and Pipe Size	Normal Operating Range	Connections	A	B	C	Dimensions					Net Weight	Shipping Weight
2" / DN 50mm	1.0 gpm / .23 m³/hr to 250 gpm / 57 m³/hr	Flanged	10" / 254mm	7-7/8" / 200mm	1" / 25mm	5-3/4" / 146mm	2-5/16" / 59mm	4-1/2" / 114mm	2	3/4" / 19mm	17.4 lbs. / 7.9 kg	24.5 lbs. / 11.11 kg

SPECIFICATIONS

SERVICE	Measure of potable water. Operating temperature range of 33°F (.56°C) – 150°F (65.6°C).
OPERATING RANGE	100% ± 1.5% from 1.5 – 250 GPM (.34 – 57 m³/hr)
LOW FLOW	95% – 101.5% @ 1.0 GPM (.23 m³/hr)
MAXIMUM CONTINUOUS OPERATION	200 GPM (45 m³/hr)
MAXIMUM INTERMITTENT OPERATION	250 GPM (57 m³/hr)
PRESSURE LOSS	7.0 psi @ 200 GPM (.48 bar @ 45 m³/hr)
MAXIMUM OPERATING PRESSURE	200 PSI (13.8 bar)

FLANGE CONNECTIONS	2" U.S. ANSI B16.1 / AWWA Class 125
REGISTER	Fully electronic sealed register with programmable registration (Gal. /Cu.Ft. / Cu. Mtr. / Imp.Gal / Acre Ft.) Programmable AMR/AMI reading and pulse outputs Guaranteed 10 year battery life
NSF APPROVED MATERIALS	Maincase: Coated Ductile Iron Measuring Chamber: Thermoplastic Rotor "Floating Ball": Thermoplastic Radial Bearings: Hybrid Thermoplastic Thrust Bearings: Sapphire/Ceramic Jewel Magnets: Ceramic Magnet

