OMNI T^2

4" OMNIT² Meter

DESCRIPTION

Model: The OMNIT² meter operation is based on advanced Floating Ball Technology (FBT) with an operating range of 2.0 GPM (.45 m³/hr) @ 95% min. to 1250 GPM (284 m³/hr) @ 100% +/- 1.5% registration of actual throughput. The meter is also rated for continuous flows up to 1000 GPM (227 m³/hr).

Conformance to Standards: The OMNIT² 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 OMNIT² 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, unique chamber seal to the maincase using a high pressure o-ring, testing port and a convenient integral strainer with optional drain/debris-flushing ports.

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









AMR/AMI Mode

Resettable Test Mode

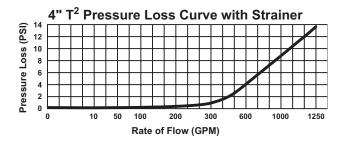
or wear, thus creating the extended upper and lower flow ranges capable on only the OMNIT² meter.

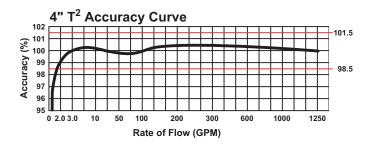
Strainer: The OMNIT² with the "V" shaped integral strainer using a stainless steel screen along with Floating Ball Technology (FBT) create a design that gives far improved accuracy even in those once thought questionable settings. A removable strainer cover permits easy access to the screen for routine maintenance. Optional drain ports, located at the back lower corners of the strainer body, allow for easy discharging of debris without the need to remove the cover.

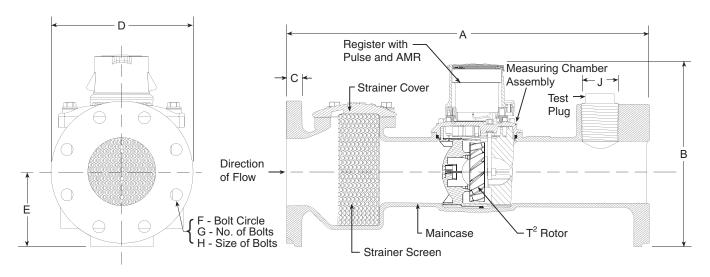
Maintenance: The OMNIT² meter is designed for easy maintenance. Should any maintenance be required, the measuring chamber and / or strainer cover can be removed independently. Parts and or a replacement measuring chamber may be utilized in the event repairs are needed. Replacement and Measuring Chamber 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 AMR/AMI systems.

Guarantee: Sensus OMNIT² Meters are backed by "The Sensus Guarantee." Ask your Sensus representative for details or see Bulletin G-500.







DIMENSIONS AND NET WEIGHTS

Meter and	nd Normal		Dimensions									Net	Shipping	
Pipe Size	Operatin	g Range	Connections	Α	В	C	D	E	F	G	Н	J	Weight	Weight
4"	2.0 gpm	1250 gpm	Flanged	23"	11-3/16"	15/16"	9-1/8"	4-3/4"	7-1/2"	8	5/8"	2"	67.9 lbs.	75.8 lbs.
DN 100mm	.45 m³/hr	284 m³/hr		584mm	284mm	24mm	232mm	121mm	191mm	8	16mm	50mm	30.80 kg	34.38 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 3 – 1250 GPM (.68 – 284 m³/hr)				
LOW FLOW	95% - 101.5% @ 2.0 GPM (.45 m³/hr)				
MAXIMUM CONTINUOUS OPERATION	1000 GPM (227 m³/hr)				
MAXIMUM INTERMITTENT OPERATION	1250 GPM (284 m³/hr)				
PRESSURE LOSS	8.7 psi @ 1000 GPM (.60 bar @ 227 m³/hr)				
MAXIMUM OPERATING PRESSURE	200 PSI (13.8 bar)				

FLANGE CONNECTIONS	4" U.S. ANSI B16.1 / AV	VVVA 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: Measuring Chamber: Rotor "Floating Ball": Radial Bearings: Thrust Bearings: Magnets: Strainer Screen: Strainer Cover: Test Plug:	Coated Ductile Iron Thermoplastic Thermoplastic Hybrid Thermoplastic Sapphire/Ceramic Jewel Ceramic Magnet Stainless Steel Coated Ductile Iron Coated Ductile Iron			

Page 2 of 2

