American Water & Energy Savers *"Your building's greatest liquid asset" SM* 4431 North Dixie Highway | Boca Raton, FL 33431 Il Free: (800) 950-9058 | Office: (561) 361-4014 | Fax: (561) 361-43

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## DESCRIPTION

**Model:** The OMNIT<sup>2</sup> meter operation is based on advanced Floating BallTechnology (FBT) with an operating range of 1.5 GPM (.34 m<sup>3</sup>/hr) @ 95% min. to 650 GPM (148 m<sup>3</sup>/hr) @ 100% +/- 1.5% registration of actual throughput. The meter is also rated for continuous flows up to 500 GPM (114 m<sup>3</sup>/hr).

**Conformance to Standards:** The OMNIT<sup>2</sup> 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 OMNIT<sup>2</sup> meter assure enhanced accuracy ranges, an overall greater accuracy, and a longer service life than any other comparable class meter produced. The T<sup>2</sup> 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 T<sup>2</sup> 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 T<sup>2</sup> 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



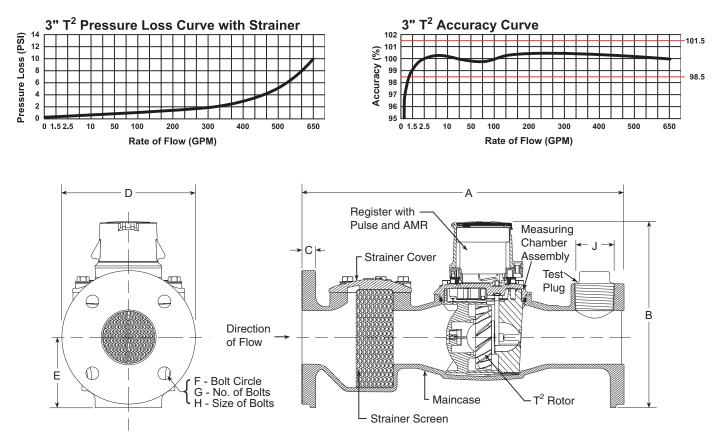
or wear, thus creating the extended upper and lower flow ranges capable on only the OMNIT<sup>2</sup> meter.

**Strainer**: The OMNIT<sup>2</sup> 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 OMNIT<sup>2</sup> Meters are backed by "The Sensus Guarantee." Ask your Sensus representative for details or see Bulletin G-500.



## **DIMENSIONS AND NET WEIGHTS**

Meter and	Normal		Dimensions									Net	Shipping	
Pipe Size	Operating	g Range	Connections	Α	В	C	D	E	F	G	Н	J	Weight	Weight
3″ DN 80mm	1.5 gpm .57 m³/hr	650 gpm 148 m³/hr	Flanged	19″ 483mm	8-3/4″ 222mm	3/4" 19mm	7-7/8″ 200mm	4-1/8″ 105mm	6″ 153mm	4 4	5/8" 16mm	2″ 50mm	48.5 lbs. 22.00 kg	57.4 lbs. 26.04 kg.

## **SPECIFICATIONS**

PRESSURE

SERVICE	Measure of potable water. Operating temperature range of 33°F (.56°C) – 150°F (65.6°C).	FLANGE CONNECTIONS	3" U.S. ANSI B16.1 / AWWA Class 125			
OPERATING RANGE			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			
LOW FLOW 95% - 101.5% @ 1.5 GPM (.34 m³/hr)						
MAXIMUM CONTINUOUS OPERATION	500 GPM (114 m³/hr)	NSF APPROVED MATERIALS	Maincase: Measuring Chamber:	Coated Ductile Iron Thermoplastic		
MAXIMUM INTERMITTENT OPERATION	650 GPM (148 m³/hr)		Rotor "Floating Ball": Radial Bearings: Thrust Bearings: Magnets:			
PRESSURE LOSS			Strainer Screen: Strainer Cover:	Stainless Steel Coated Ductile Iron		
MAXIMUM OPERATING	200 PSI (13.8 bar)		Test Plug:	Coated Ductile Iron		

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