

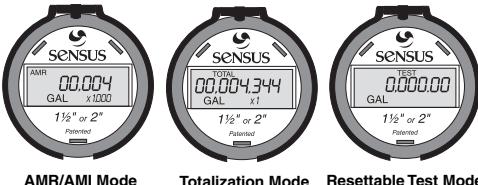
# Water Meters, Systems & Accessories **H-13**

# Sensus Omni Meters



**H**

***“Better By Every Measure”***



## **PERFORMANCE:**

The patented measurement principles of the OMNI meter assure enhanced accuracy ranges, an overall greater accuracy, and a longer service life than any other comparable class meter produced. The 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 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 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:**

A fully magnetic pickup system eliminates the need for the failure prone worm or miter gears typically required for horizontally mounted measuring elements. Virtually, friction free registration 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 patented 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 meter.

## **STRAINER:**

The OMNI with the “V” shaped integral strainer using a stainless steel screen along with patented 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 OMNI meter is designed for easy maintenance. Should any maintenance be required, the measuring chamber and / or strainer cover can be removed independently. Spare 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 meters and this program may also be utilized for retrofitting to competitive meters to achieve increased accuracy and extended service life.