

# Sensus Water Meter Manual



## SR II-EB II® Water Meters

### Displacement Type Magnetic Drive Cold Water Meters

3/8" (DN 15mm), 1/2" (DN 20mm) and 1" (DN 25mm) Sizes

### Description

**Applications:** Measurement of cold water where flow is in one direction only, in residential, commercial and industrial services.

**Conformance To Standards:** Series SR 4-EB 4 Water Meters meet the requirements of NSF Standard 61 and comply with ANSI AWWA Standard C700-latest revision. Each meter is tested to insure compliance with AWWA standards.

**Construction:** Series SP-1-428 1/2 Water Meters consist of three main components: malleable measuring chamber and sealed register. Meters are made of Envinyl® or 316L C30500 alloy with externally threaded spools. Registers are housed in a tonnel of synthetic polymer. Measuring chambers are of Rockwell® a common-resistant, tailored thermoplastic material formulated for long-term performance and especially suitable for aggressive water conditions. Malleable bottom plates are available in Envinyl-Brass 1/2" or if free protection is desired, in cast iron or synthetic polymer.

**Sealed Register:** Hermetically sealed, proven magnetic drive design eliminates dirt and moisture contamination, tampering and lens fogging problems. Standard register includes a straight-reading, odometer-type totalization display; a 360° test circle with center sweep hand; and a low-flow (leak)-detector. Gears are self-lubricating, molded plastic for long life and minimum friction.

No change gears are required for accuracy calibration. Encoder-type remote reading systems are available for all SR-12B-1 Water Meters. (See other side of sheet for additional information.)

**Tamperproof Features:** A unique locking system prevents customer removal of the register to obtain free water. A special tool, available only to water utilities, is required to remove the register bonnet.

**Magnetic Drive:** The SR 8-ES II features a hydrodynamically cushioned design that eliminates premature wear of components. The meter utilizes a patented positive, reliable drive coupling. The high-strength magnets used will eliminate "drive slip" in normal use and also provide adequate strength to drive remote register units.

**Operation:** Water flows through the meter's strainer and into the measuring chamber where it drives the piston. The hydrodynamically balanced piston oscillates around a central hub, guided by the division plate.

A drive magnet transmits the motion of the piston to a driven magnet located within the hermetically sealed register. The driven magnet is connected to the register gear train. It reduces the piston oscillations into volume calibration units displayed on the register dial face.

**Maintenance:** Series SRI 4-B-B Water Meters are engineered to provide long-term value and virtually maintenance-free operation. Simplicity of design and precise machining of components allows interchangeability of parts of like-size meters, reduced parts inventory requirements, and ease of maintenance. The register can be removed without relieving the water pressure or removing the

**Connections:** TailwoodUnions for installing the meters on a variety of pipe types and sizes are available.

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### Specifications



5/8" SPACED ANCH (pictured); 3/4" and 1" available

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**Sensus water meter manual** serves as an essential guide for both residential and commercial users to understand, operate, and maintain their water metering systems effectively. Sensus water meters are widely used in municipal water systems, providing accurate readings and reliable performance. Understanding how to use and troubleshoot these meters can help users save water, reduce costs, and ensure compliance with local regulations. This article will delve into the critical aspects of the Sensus water meter manual, offering insights into its features, installation, maintenance, and troubleshooting.

# Understanding Sensus Water Meters

Sensus water meters are designed to measure the volume of water used in a specific location accurately. These meters can be classified into two main types: mechanical and electronic. Each type has its unique features and benefits, making it essential for users to understand the differences.

# Types of Sensus Water Meters

## 1. Mechanical Water Meters:

- Utilizes a rotating element to measure water flow.
- Requires minimal power and is generally easier to install.
- Ideal for residential use due to lower costs.

## 2. Electronic Water Meters:

- Employs digital technology to provide precise readings.
- Often equipped with advanced features such as leak detection and remote reading capabilities.
- Typically used for commercial applications where accuracy is paramount.

# Getting Started with the Sensus Water Meter Manual

When you first acquire a Sensus water meter, the manual is your go-to resource. It contains vital information regarding installation, calibration, and operation.

## Installation Guidelines

Proper installation is crucial for accurate readings and optimal performance. Here's a step-by-step process based on the Sensus water meter manual:

### 1. Preparation:

- Ensure the installation site is clean and dry.
- Gather necessary tools (wrenches, screwdrivers, etc.).

### 2. Locating the Meter:

- Identify a location that is easily accessible for maintenance and reading.
- Avoid areas prone to flooding or extreme temperatures.

### 3. Mounting the Meter:

- Follow the directional arrows on the meter body to ensure correct flow direction.
- Secure the meter using appropriate fittings.

### 4. Connecting the Water Supply:

- Use Teflon tape or pipe joint compound on threaded connections to prevent leaks.
- Tighten connections without over-torquing.

### 5. Testing for Leaks:

- Turn on the water supply slowly and check all connections for leaks.

- If any leaks are detected, tighten the fittings as necessary.

## Operating Your Sensus Water Meter

Once installed, understanding how to operate your Sensus water meter is essential for accurate readings and effective water management.

### Reading the Meter

The Sensus water meter displays readings in various formats, depending on the model. Follow these tips for accurate reading:

- Digital Meters: Simply read the numerical display. Some models might have additional features such as alerts for leaks or high usage.
- Mechanical Meters: Read the dial correctly, noting the numbers as they appear on the dial face.

### Common Features

Sensus water meters often come equipped with various features designed to enhance user experience:

- Leak Detection: Alerts users to unusual water usage patterns, indicating potential leaks.
- Remote Reading Capabilities: Allows for data to be collected without manual meter reading.
- Data Logging: Records water usage over time, helping users track consumption trends.

## Maintenance of Sensus Water Meters

Regular maintenance ensures that your Sensus water meter functions correctly and lasts for many years. The manual provides guidance on maintaining your water meter.

### Routine Checks

- Visual Inspection: Regularly check the meter for any visible signs of wear or damage.
- Cleaning: Periodically clean the exterior to prevent dirt buildup, which can affect performance.

- Calibration: Ensure that the meter is calibrated according to the manufacturer's specifications. This might require a professional service.

## Winterizing Your Meter

In colder climates, it's essential to protect your water meter from freezing temperatures. Follow these steps:

1. Insulation: Use insulation blankets or wraps to shield the meter from the cold.
2. Shut Off Valves: If possible, shut off the water supply during extreme cold and drain the meter.
3. Monitor Usage: Keep an eye on the meter readings during winter months to detect any unusual activity.

## Troubleshooting Common Issues

Even with proper installation and maintenance, issues may arise. The Sensus water meter manual provides troubleshooting tips for common problems.

### Identify the Problem

- No Reading Displayed: Check the power supply if it's an electronic meter or ensure that the mechanical meter is not stuck.
- Inaccurate Readings: This may indicate a calibration issue or internal damage. Recalibrate or consult a professional.
- Leaking Connections: If you find leaks, inspect the fittings and tighten them as needed.

### When to Call a Professional

If you encounter problems that cannot be resolved through troubleshooting, it may be time to call a professional. Situations that warrant professional help include:

- Persistent leaks that cannot be fixed.
- Consistently inaccurate readings after recalibration attempts.
- Damage to the meter that requires replacement.

# Conclusion

The **sensus water meter manual** is an invaluable tool for users wanting to maximize the efficiency and accuracy of their water metering systems. Understanding the installation process, how to read the meter, regular maintenance practices, and troubleshooting common issues can lead to better water management and cost savings. For both residential and commercial users, familiarizing yourself with the manual can ensure that you reap the full benefits of your Sensus water meter for years to come. By taking the time to understand and adhere to the guidelines provided, you can effectively manage your water usage, detect potential problems early, and contribute to sustainability efforts in your community.

## Frequently Asked Questions

### **What is a Sensus water meter manual used for?**

The Sensus water meter manual provides instructions for installation, operation, maintenance, and troubleshooting of Sensus water meters.

### **Where can I find the Sensus water meter manual?**

The Sensus water meter manual can typically be found on the official Sensus website under the support or resources section, or by contacting Sensus customer service.

### **What should I do if I lose my Sensus water meter manual?**

If you lose your Sensus water meter manual, you can download a digital copy from the Sensus website or request a replacement copy from their customer support.

### **Are there different manuals for different models of Sensus water meters?**

Yes, Sensus produces various models of water meters, and each may have a specific manual tailored to its features and installation requirements.

### **How can I troubleshoot a Sensus water meter using the manual?**

The manual includes a troubleshooting section that outlines common issues, diagnostic steps, and solutions for resolving problems with the water meter.

## What safety precautions are mentioned in the Sensus water meter manual?

The manual outlines safety precautions such as ensuring the meter is installed in a safe environment, properly handling tools, and following local regulations.

## Does the Sensus water meter manual include maintenance recommendations?

Yes, the manual provides guidelines on regular maintenance practices to ensure the water meter operates efficiently and has a long lifespan.

## Can I perform the installation of a Sensus water meter myself using the manual?

While the manual provides detailed installation instructions, it is recommended to consult a professional if you are unsure about any steps or local plumbing codes.

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Discover the Sensus water meter manual for easy installation and troubleshooting. Get expert tips and insights to optimize your water usage. Learn more!

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