



## **S-26 Wireless Ultrasonic Flow Meter quick start guide**

Thank you for your purchase of OmniSense S-26 Wireless Ultrasonic Flow Meter. Follow the steps below to install your sensor and view data readings.

### **1 Create a new account if you do not already have one**

- You will need a monitoring account and a "online" gateway to see live data on your job site
- see "Monitoring quick start guide" for instructions on creating your account

### **2 Mount Meter Enclosure**

- Use the 4 supplied mounting ears to mount the enclosure in a suitable location close to the pipe whose flow is to be monitored.
- Enclosure is a waterproof NEMA Enclosure designed to IP66 of IEC 529 and NEMA 1, 2, 4 and 4x specifications
- Ultrasonic transducer cables are approximately 16 feet long

### **3 Connect to 100-240 VAC power**

- The meter is supplied with a 8 ft power cord and a 3 prong US power plug and requires a suitable AC power source from 100-240 VAC at 1 watt

### **4 Using the keypad and navigating the controller menu**

- The controller is highly programmable, do not change any settings other than those detailed in this document or the meter may cease to function.
- The controller menu is organized as a series of uniquely numbered menu screens. On most, but not all, menu screens the current screen number will be displayed and on all screens there will be text describing that menu screen. Use the right arrow key to advance to the next menu screen or the up arrow to go back to the previous menu screen. You can also enter the menu item number directly by using blue menu key, then the up arrow to set the first digit, then the right arrow to advance to the next digit, then the up arrow again to set the next digit then the red "ent" button
- To change the value of a setting use the red "ent" button to go into edit mode and then the up arrow to modify the current character (can be "0-9" or a "." decimal point), then the right arrow to move to the next character position and repeat until you have entered the desired value. To save the value hit the red "ent" key again. **Note that settings are NOT permanently saved until you use menu screen 26 to "solidify" or permanently save the settings.** Any settings not permanently saved will be lost when power is turned off.



## 5 Program Pipe Dimensions

Note only two of "Pipe Inner Diameter", "Pipe Outer Diameter" or "Pipe Wall Thickness" are required and the third will be automatically computed by the controller.

- Pipe Inner Diameter - Menu screen 13
- Pipe Outer Diameter - Menu screen 11
- Pipe Wall Thickness - Menu screen 12
- Pipe Material - Menu screen 14
- Pipe Liner Material - Menu screen 16 - select "none" for pipes with no liner otherwise select the liner material. If a liner is selected, enter the liner thickness in menu screen 18
- Record Spacing - Menu screen 25 is the optimal transducer spacing that is required for the pipe dimensions programmed in the steps above. You'll need to know this number when you install the transducers.
- **YOU MUST SAVE THE NEW SETTINGS!! - use menu screen 26 to "solidify" or save the settings changes made above.**

## 6 Program Relay/Buzzer/Flasher Trigger (Optional)

The unit is shipped to close the relay/sound alarm/flash LED if "Alarm #1" is ON and open the relay if "Alarm #1" is OFF. If you plan to use the relay will need to configure "alarm #1" using menu screen 75 for lower limit of flow rate and screen 76 for upper limit of flow rate. There are many more options than flow rate for relay control, please contact us for more information.

- **YOU MUST SAVE THE NEW SETTINGS!! - use menu screen 26 to "solidify" or save the settings changes made above.**

## 7 Install Ultrasonic Transducers

The meter uses two ultrasonic transducers. One is labeled "Up" and is mounted upstream and one is labeled "Down" and is mounted downstream. Transducers must be mounted "in line" and the spacing between them must be the value displayed in menu screen 25 "Spacing". Use the supplied silicone grease between the face of the transducer and the pipe to improve the acoustic coupling. Use the supplied stainless steel hose clamps to securely clamp the transducers to the pipe.



## 8 Viewing sensor data

- see "Monitoring quick start guide" for instructions on viewing data through your OmniSense monitoring account