



# Uponor

## RADIANT HEATING SYSTEMS FLOWMASTER JR.

### INSTRUCTION SHEET

### Overview

The Uponor FlowMaster Jr. (A2610001) uses superior technology to measure flow and temperature in radiant floor heating systems. Using infrared light, the hand-held electronic instrument reads each loop's flow and temperature for accurate and quick balancing or troubleshooting.

Similar to the original FlowMaster (A2620001), the FlowMaster Jr. features measuring and set-up functions only — making it perfect for installers who do not need to save or download data to a computer.

### Measuring Functions

The FlowMaster Jr. measures loop-return temperature and two ranges of flow — normal and high.

**Normal range:** 0.15 to 1.3 gallons per minute (gpm)

**High range:** 0.4 to 2.0 gpm

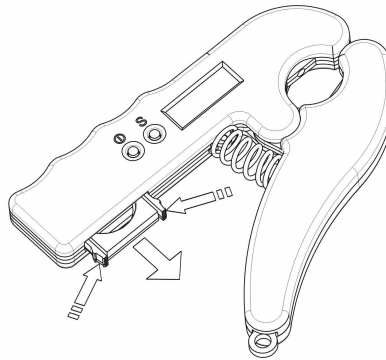
### Set-up Functions

- U.S. or metric units
- Flow calibration

### Battery Installation

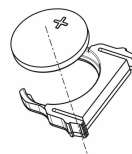
The FlowMaster Jr. requires one battery for operation (two batteries included). To install or replace the battery, refer to the following instructions.

1. Squeeze the two tabs on the battery holder as shown in **Figure 1**, and pull it out.



**Figure 1: Removing the Battery**

2. Place the 3-volt lithium battery in the holder as shown in **Figure 2**.



**Figure 2: Place Battery in Holder**

3. Push the battery holder back in place, ensuring the tabs click in place.

### Operation

#### Turning the Unit On and Off

Refer to the following instructions to turn the unit on and off

1. To turn the unit on, press and hold the **⓪** button for approximately three seconds until the word ON appears in the display window.
2. To turn the unit off, press and hold the **⓪** button for approximately three seconds until the text disappears from the display window.

#### Flow Range Selection

To select the flow range, refer to the following instructions.

1. Press and hold the **S** button until F01 appears in the display window and then release.
2. Press the **S** button again to toggle between rL (normal range, 0.15 to 1.3 gpm) and rH (high range, 0.4 to 2.0 gpm).
3. Press the **⓪** button to confirm your selection.



### Unit Measurement Selection

To select the units of measurement, refer to the following instructions.

1. Press and hold the S button until F02 appears in the display window and then release.
2. Press the S button again to toggle between U.S. and metric units.
3. Press the  $\text{\textcircled{1}}$  button to confirm your selection.

### Flow and Temperature Measurement

To toggle between the flow and temperature measurement, simply press the S button.

### Self-calibration Process

Calibration is only necessary when the glass on the inside of the flow meter has darkened due to deteriorating fluid quality. To properly self-calibrate a loop, refer to the following instructions.

1. Before attaching the FlowMaster Jr. to the TruFLOW manifold, wipe the outside of the measuring window on the flow meter nipple with a clean cloth.

**Note:** Do not use solvent-based cleaning solution. It can damage the flow meter.

2. Open the valve on the manifold 100% (maximum flow) to obtain an accurate reference point. Ensure the flow has a stable temperature reading.
3. Close all the loops except the loop you are calibrating. Make sure the system pump is operating.



Figure 3: FlowMaster Jr. Attached to Flow Meter Nipple

4. Attach the FlowMaster Jr. to the flow meter nipple as shown in **Figure 3**.
5. Press the S button until F03 appears in the display window and release the button.
6. Press the  $\text{\textcircled{1}}$  button to start the calibration process.

### Overflow (OFL) Display

When OFL (overflow) appears in the display window, the flow meter nipple is out of measuring range.

### Underflow (UFL) Display

When UFL (underflow) appears in the display window, the flow meter nipple is out of measuring range.

### Hold Function

The FlowMaster Jr. does not store data. To record data for balancing or future reference, use the hold function. To hold the current value shown in the display window while measuring flow or temperature, press the  $\text{\textcircled{1}}$  button. When done, simply press the  $\text{\textcircled{1}}$  button again to resume normal operation.

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