

FlowMax™ 221 Quick Start Guide

Operation

1. Press  to turn on FlowMax 221.

Important: Without activity, FlowMax 221 will power down automatically after approximately one minute. After power

down, press  to restart the FlowMax 221 (flow pulse will not restart the display).

Meter Cal

METER CAL is entered at the factory. Changing the CAL number is required only after field replacement of display assembly and/or flowmeter.

Display Titles

Title	Description
Flow	Flow Rate will flash (vol/min)
US	Volume in gallons
SI	Volume in liters
"690"	Adjustable Meter Calibration number (set at factory)
VOL 1	Total Volume #1 gallons [liters]
VOL 2	Total Volume #2 gallons [liters]
VOL 3	Total Volume #3 gallons [liters]
CLR V1	Clear Volume 1
CLR V2	Clear Volume 2
CLR V3	Clear Volume 3
LoBAT	Limited battery life remaining

2. Press  to start the display.
3. Press  to toggle through VOL1, VOL2, VOL3.
4. Press  to display Flow Rate in gallons/min [liters/min].

Entering Data

Clearing Volume Totals

1. Press and hold  until VOL 1 is displayed.

2. Press . The display will flash CLR V1.
3. Press  to toggle between CLR V1, CLR V2, CLR V3.
4. Press . The selected volume will reset to zero.

Entering Meter Cal

1. Press .
2. Press .
3. Press and hold  until the METER CAL # is displayed.
4. Press . A "C" will appear on the right side of the display.
5. Press  to decrease the Meter Cal # or press  to increase the Meter Cal #.
6. Press  to program the adjusted Meter Cal #.

Changing from US to SI Units

1. Press .
2. Press .
3. Press and hold  until "US" is displayed.
4. Press . A "C" will appear on the right side of the display.
5. Press  key to toggle from "US" to "SI".
6. Press  to program either "US" or "SI" setting.

Calculating "METER CAL"

The Flow Meter calibration number is stamped on the tag attached to each FlowMax 221. Write this number down so it is available if future programming is required.

To convert original METER CAL from gallons to desired units of measure (oz, lbs, or liters), see METER CAL CONVERSIONS. Write down this calibration number for future reference when programming the FlowMax 221.

Meter Cal Conversions

To convert the METER CAL number, divide the original number (printed on FlowMax 221 label) by the desired conversion factor. The table below provides some liquid conversions.

	Conversion Rate	Conversion Unit
One Gallon Equals	128	Fluid Ounces
	3.785	Liters
	.83267	Imperial Gallons
	8.34	Pounds (Water)

For Example: To convert gallons to 600 gallons to liters.

$$\text{Gallons} \times \text{Conversion Rate} = \text{Meter Cal in New Unit} \quad (\text{EQ 1})$$

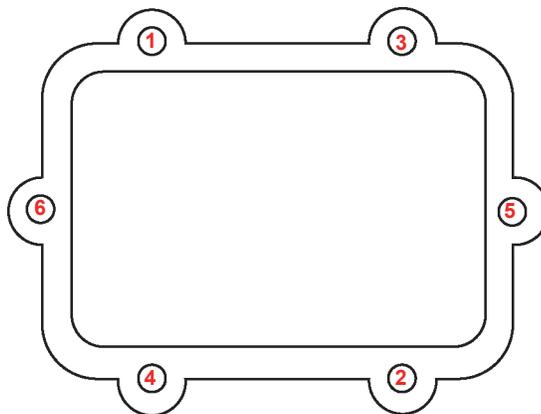
$$600 \times 3.875 = 2325 \quad (\text{EQ 2})$$

Battery Replacement

FlowMax 221 is operated with two 1.5 volt lithium AA batteries. The batteries do not need to be within normal voltage specifications or installed to retain current totals. "LoBAT" will flash on the display indicating limited remaining battery life.

Battery Installation

1. Remove the six screws from the display screen and bezel.



2. Remove the batteries from the back of the display screen.
3. While verifying polarity, insert the new batteries in the back of the display screen.
4. Replace the display screen and bezel on the FlowMax 221. Verify O-ring alignment during this process.
5. Reinstall the six screws. Tighten screws in the order shown in the figure above and on the Display Bezel to 20 in. lbs.

