




Simply improving your position.<sup>SM</sup>

# FLOWMAX 220 QUICK START GUIDE

## OPERATION

Turn on FLOWMAX 220 by pressing  key.

**NOTE:** Without activity, FLOWMAX 220 will shut off automatically after 90 seconds. After power down, depress  key to re-start FLOWMAX 220. (Flow pulse will not re-start the display).

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

### DISPLAY TITLES





- |  |  |
|--|--|
| Flow -- Flow Rate will flash (vol/min)                         | CLR V1 -- Clear Volume 1                 |
| US -- Volume in gallons  | CLR V2 -- Clear Volume 2                 |
| SI -- Volume in liters   | CLR V3 -- Clear Volume 3                 |
| "690" -- Adjustable Meter Calibration #<br>(preset at factory) | Lo BAT -- Limited battery life remaining |
| VOL 1 -- Total Volume #1 gallons [liters]                      |  |
| VOL 2 -- Total Volume #2 gallons [liters]                      |  |
| VOL 3 -- Total Volume #3 gallons [liters]                      |  |

Depress  key to initiate the display. Depress the  key to toggle through VOL1, VOL2, & VOL3.








Depress  key to display Flow Rate in gallons/min [liters/min].

### ENTERING DATA







#### To Clear Volume Totals:

1. Depress  key until "VOL1" is displayed.
2. Depress  key.
3. Display will flash "CLR V1" (depress  key to toggle between CLR V1, CLR V2, or CLR V3).
4. Depress  key (VOL1 will re-set to zero).

#### To Enter Meter Cal:

1. Depress  key.
2. Depress  key.
3. Depress  key until the METER CAL # is displayed.
4. Depress  key ("C" will appear on the right side of the display).
5. Depress  key to decrease Meter Cal # or depress  key to increase Meter Cal #.
6. Depress  key to program adjusted Meter Cal #.

## TO CHANGE FROM "US" TO "SI"

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

## CALCULATING "METER CAL"

The Flow Meter calibration number is stamped on the tag attached to each FLOWMAX 220. Write down this number for future reference when programming the FLOWMAX 220.

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 220.

## METER CAL CONVERSIONS

To convert the METER CAL number simply divide the original number (number printed on FLOWMAX 220 label) by the desired conversion factor.

### FOR EXAMPLE:

Original METER CAL No. = METER CAL No. for displays in Fluid Ounces  
128

Original METER CAL No. = METER CAL No. for displays in Liters  
3.785

Original METER CAL No. = METER CAL No. for displays in Pounds  
Weight of one gallon

### LIQUID CONVERSIONS

U.S. Gallons x 128 = Fluid Ounces

U.S. Gallons x 3.785 = Liters

U.S. Gallons x 0.83267 = Imperial Gallons

U.S. Gallons x 8.34 = Pounds (Water)

### BATTERY REPLACEMENT

FLOWMAX 220 is operated with a 3.6 volt lithium AA battery. The battery does not need to be within normal voltage specifications or installed to retain current totals. "Lo BAT" will flash on the display indicating limited remaining battery life.

### BATTERY INSTALLATION

- 1) Remove 4 screws from display screen.
- 2) Remove battery from back of display screen.
- 3) Insert new battery in back of display screen (observe polarity).
- 4) Replace display screen on to FLOWMAX 220 (check o-ring alignment).
- 5) Re-install the 4 screws.

**NOTE:** Battery must be 3.6V, 1.5V batteries will not power the display.

### INSTALLATION

Install FLOWMAX 220 in flow line with proper flow direction verified.