

	NEW 2100 CALIBRATION	216X 217X
	NEW STYLE METERS Adjustable Units of Measure Calibration	

Changing Units of Measure

Press the 'Reset' button and the 'Calibr.' button simultaneously. Use the 'Reset' button to toggle between different units of measure, Qt = Quarts, PT = Pints, L = Liters, and GAL = Gallons. Press the 'Calibr.' button to set the new unit of measure and return to dispense mode.

Note #1 Some models shipped as Liter units from the factory do not have this function enabled.

Calibration

Note #2 Oval Gear meters are remarkably accurate. Please consider that it is not possible to stop the meter exactly at the desired amount during a regular dispense – the meter is more accurate than the human hand. Double check all sources of inaccuracy before attempting calibration.

- Clogged Inlet Screen (Consistently inaccurate)
- Contaminant in the metering chamber (Consistently or occasionally inaccurate, or no reading at all)
- Thermal Expansion (Intermittent inaccuracy)
- Air in the system (Occasional inaccuracy accompanied by foaming of the oil)
- Operator Error (Unpredictable inaccuracy)
- *Never* check accuracy with plastic quart bottles!

- 1) Only use a Weights/Measures approved rigid metal container. Do not use a Quart Bottle or any kind of flexible plastic container!
- 2) Dispense into the container a precise fixed amount. Do not feather the trigger; hold it completely open for the entire dispense and close it quickly when finished. Write down the amount in the container and the amount showing on the display:

- Example #1 Container = 4.0 Quarts, Display = 4.2 Quarts
- Example #2 Container = 4.0 Quarts, Display = 3.8 Quarts

Divide the amount in the container by the amount shown on the display and round off to four digits.

- Example #1 $4.0(C) \div 4.2(M) = .9523$
- Example #2 $4.0(C) \div 3.8(M) = 1.052$

This will be the new factor/field number.

- 3) Press the 'Calibr.' button and hold it down for two seconds. The display will show 1.000 on top and Cal FAct on the bottom. Repeat this procedure if the display does not enter into the calibration mode.
- 4) Press the 'Reset' button and hold it down for 2 seconds. The display will show 0.000 on top and Cal FiELd on the bottom.

- 5) Press the 'Reset' button again and hold it down for 2 seconds. The display will show 1.000 on the top and Cal▲ dirEct on the bottom.
- 6) To increase the factor/field number press and hold the 'Calibr.' button until the correct factor/field number is entered in the upper portion of the LCD display.
- 7) To decrease the factor/field number press and release the 'Reset' button. The display will show 1.000 (or the previously changed number) on the top and ▼Cal dirEct on the bottom. Press and hold the 'Calibr.' button until the correct factor/field number is entered in the upper portion of the LCD display.
- 8) Briefly pressing the 'Reset' button will allow toggling between Cal▲ and ▼Cal until the correct factor/field number has been entered in the upper portion of the LCD display.
- 9) Once the correct factor/field number has been entered in the upper portion of the LCD display press and hold the 'Reset' button to enter the new factor/field number into the on-board memory. The meter will display - - - on the top and Cal End on the bottom, then display the new factor/field number briefly, then cycle through the version and serial number. It will then revert to dispense mode and is ready for use.

Note #3 If the factor/field number has been previously changed, entering into the calibration mode will cause the field calibration to display first instead of the factory calibration.

Note #4 Failure to complete the entire calibration menu will result in the meter reverting to the previously set values.

- Pausing for more than 20 seconds on any menu item will cause the meter to revert to dispense mode and no information will be saved.
- Failing to press and hold the 'Reset' button after a new factor/field number has been entered will cause the meter to revert to dispense mode and no information will be saved.