EMH500/550 Electronic Register
Non-compensated Calibration

This procedure is used to calibrate the EMH500 without temperature compensation. The typical calibration process using temperature compensation is described on the EMH500 Automatic Calibration Procedure QuickStart card.

EMH500/550 Non-compensated Valve Calibration Prep

- ❑ Press CAL button. EMH500 displays **K0 CAL? N**.
- ❑ Press TOTAL once to change **N** to **Y**. Press START/STOP to save.
- ❑ Press MODE until the EMH500 displays **XXX.XXXX** (where XXX.XXXX is the current K factor). It is set to 015.0000 from the factory.
- ❑ Use the RESET button to change digit places and the TOTAL button to increment the digits. Set the K factor to 140.0000 for a Neptune meter or 800.0000 for an LC meter.
- ❑ Press START/STOP to save the change.
- ❑ Press MODE until the EMH500 displays **MANAG? N**.
- ❑ Press TOTAL once to change **N** to **Y**. Press START/STOP to save.
- ❑ Press MODE until the EMH500 displays **S.G. 0.YYYY** where YYYY is the specific gravity of the product.
- ❑ Use RESET to change digit places and TOTAL to increment the digits, set the specific gravity to 0.0000.
- ❑ Press START/STOP to save the change.
- ❑ Press CAL. Note that the square in the upper left corner of the EMH500 display is gone. This indicates that temperature compensation is OFF.
- ❑ The EMH500 is now ready for non-compensated calibration.

This completely turns OFF all temperature compensation. Gallons displayed on the EMH500 will be <u>uncorrected</u>.

EMH500/550 Non-compensated Calibration

- ❑ Ensure that there is paper in the printer.
- ❑ Press RESET to clear the display.
- ❑ If you must "pre-fill" the certified measuring container, do so now, then press RESET again to clear the display.
- ❑ Pump product into a certified measuring container.
- ❑ Press CAL. EMH500 displays **K0 CAL? N**.
- ❑ Press TOTAL once to change **N** to **Y**. Press START/STOP to save.
- ❑ Press MODE until the EMH500 displays **K0 ACN? N**.
- ❑ Press TOTAL once to change **N** to **Y**. Press START/STOP to save.
- ❑ The EMH500 now displays the <u>uncorrected volume pumped.</u>
- ❑ Use RESET to change digit places and TOTAL to increment the digits, set the displayed volume to the actual volume as measured in the certified chamber.
- ❑ Press START/STOP to save. (This step automatically calculates the new calibration factor.).
- ❑ Press CAL button to resume delivery mode.
- ❑ Repeat above steps to verify calibration.
- ❑ If required, turn temperature compensation back on.

For additional information see the EMH500/550 User's Guide.