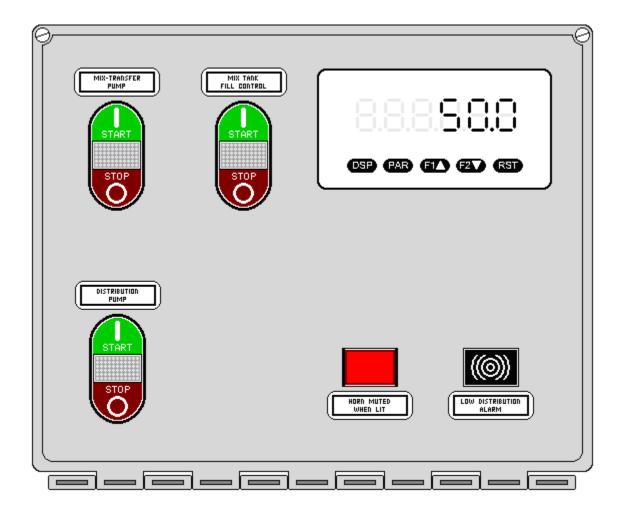## MCB 212 Batch Meter Upgrade Instruction Sheet
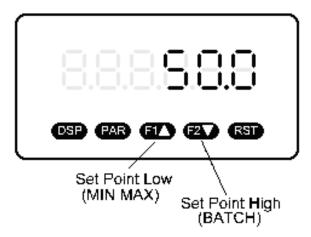
**Batch Meter**

The batch meter is designed to input two levels of purified water into the mix tank. Using SP1 for a set point low and SP2 for set point high, the batch meter gives you the ability to begin mixing a smaller amount of water with powder before adding additional volumes of water. The batch meter will remember previous level settings. So if the batch that you want to mix is the same as the last batch then no further changes need to be made. The meter is waterproof and does not require a cover. All relevant functions are identified below.



**MCB 212 Controller**

**Batch Meter Functions**

**Fill Controls**

The Flow Rate sensor, which is designed as a rotary wheel, produces electrical pulses that the Batch/totalizing meter equates into gallons filled.  This monitor is located in the rear of the machine.  When the system is ready to receive water, the Fill Solenoid Valve opens and allows water to flow into the bottom of the Mix Tank.  When the batch size is complete the Fill Solenoid Valve closes.  The sensor is located below the center stand at the rear.

**Batch Meter Operation**

1. All valves should be in the OFF or closed position (double check that the drain valves are closed – V5 and V6).
2. Confirm purified feed source water is available and the unit is plugged in.
3. Concept: The operator needs to input two tank levels into the batch meter. The meter has levels already inputted in the meter. The factory settings are as follows:

   **SP 1**: 76 liters (20.0 gallons, Set Point Low) (38 liters (10 gallons) is recommended for safe trouble-free mixing).

   **SP 2**: 95 liters (25.0 gallons, Set Point High).

4. The Operator needs to determine the quantity of water that is required for the high point up to the maximum batch the tank will hold.
5. On the Batch Meter, press the *RST* button to zero out the meter.
6. On the Batch Meter, press the *PAR* button once, the screen flashes *SP 1* (This is the Set Point Low) and then displays **76 liters (*20.0 gallons)** for the minimum mix level. If the operator wants to change the set point low press the *F1/up* or *F2/down* buttons. Then press the *PAR* button once again. The screen is now flashing *SP 2* (This is the Batch Level Setting) and then displays **95 liters (*25.0 gallons)** for the final fill level. If the operator wants to change this set point press the F1/up or F2/down buttons. Then press the *PAR* button once again. *END* will be displayed and your settings loaded.

**NOTE:** The last level setting (*SP 2*) is the quantity of water present in the total batch size, not the second half of the volume previously entered.