ProMinent How To's:

Date: June 14, 2004
Subject: WS02 Calibration Instructions
Product: Dulcometer – WS series
Category: Page: 1 of 3

Calibrating Instructions for Electrically Isolated
Current Output - WS02

1. Unscrew the four Philips screws. Remove the front plate.

2. Unscrew the four stud bolts. (5mm socket)

3. Place trimmer potentiometers R17 - R20 in their center positions and solder in jumper (BR1, BR2) depending on the type of equipment.
   - pH and redox (ORP) transmitters: Jumper 1 (BR1)
   - Cl 02 and Cl 20 Chlorine analysers: Jumper 2 (BR2)
   - Cl 01 Chlorine analyser: Jumpers 1 and 2 (BR1 and BR2)

4. Place the current output card WS 02 onto plug connector which has become accessible. The current output card is held in position by lateral guide bars.

5. Apply power to the controller and allow it to “warm up” for approximately 20 minutes.

6. Connect the measuring instrument to the current output terminals 17 and 18 of the WS series transmitter / controller F2K2 types or Terminals 12 and 13 of pool series and F1K1 types.

7. Place switch S1 into position 4...20 mA. (Note: With F2K2 types jumper BR1 must be plugged in)

8. Set simulator to the lowest input value. (pH - transmitters to 0 pH, redox transmitters to 0 mV and chlorine analysers to 0 ppm) By means of trimmer potentiometer R20 (on the right) adjust output current to 4 mA +/- 0.025 mA.

9. Set simulator to the highest input value (pH - transmitters to pH 14, redox transmitters to 1000 mV and chlorine analysers to 2 or 20 ppm) and by means of trimmer potentiometer R19 (second from the right) adjust output current to 20 mA +/- 0.025 mA.
10. Repeat steps 4 and 5 alternately until the values are within the above limits.

11. Place switch S1 into position 1 (0...20 mA) Note: With F2K2 types jumper BR1 must be pulled out.

12. Set Simulator to the lowest input value (see step 4), and by means of trimmer potentiometer R18 (second from the left) adjust the output current to 0 mA +/- 0.025 mA.

13. Set simulator to the highest input value (see step 5), and by means of trimmer potentiometer R17 (on the left) adjust output current to 20 mA +/- 0.025mA.

14. Repeat steps 8 and 9 alternately until the values are within the above limits.