



Hydro-Check
SYSTEMS, INC.

Water Quality Instrumentation
Conductivity • %Rejection • TDS • Resistivity

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CM-1K Calibration Module Instructions and Certification

Certification:

The CM-1K is a 1000 μ s calibration module simulating a CTS1 conductivity sensor with a cell constant of 1.06. The module is constructed with NIST traceable resistors with a tolerance of +/- .01% in accordance with military specification MIL-PRF-55182. *The module is factory tested and certified to simulate 1000 μ s water +/- 1 μ s.*

*****PLEASE KEEP FOR YOUR RECORDS*****

Scott Brown
Operations Manager

Instructions for 414C models:

Disconnect power from unit. Disconnect the sensor from the 414C and connect the CM-1K module to pins 7-11 as indicated on the module. Apply power to the unit and allow it several minutes to stabilize. Check temperature; it should read 25°C. There is no adjustment for temperature.

Using the calibration potentiometer (R11), adjust the Conductivity reading to be 1000 μ s/cm; when the module is initially plugged in, you should get a reading close to this number. The meter is constantly averaging readings; when making adjustments, allow a few minutes for the reading to stabilize after each change. When getting close to the proper reading, make very small adjustments (half, quarter or eighth turns of R11). Allow meter to stabilize after each adjustment. It may take 10-15 minutes to complete an accurate calibration. Once calibration is complete, disconnect the CM-1K and reconnect the sensor.

Instructions for 414TDS models:

Same as 414C, except, you will calibrate to 666 TDS/ppm.

There is no calibration required for this calibration module. It is a sealed unit.