



Calibration Lab Equipment

Temperature Calibrations

Performed using either of four Hart/Fluke Scientific “Black Stack” Model 1560 Power Bases with attached Hart/Fluke Scientific Model 2563 Thermistor Modules connected to a Thermometrics AS125 4 Wire Thermistor Standard

- 1: Fluke Scientific power base 1560 S/N B3A675 / Thermistor Module 2563 S/N B3A328 / Thermometrics AS125 4 , Wire Thermistor Standard S/N 4067
- 2: Fluke Scientific power base 1560 S/N B77034 / Thermistor Module 2563 S/N B89368 / Thermometrics AS125, 4 Wire Thermistor Standard S/N 4196
- 3: Hart Scientific power base 1560 S/N A05690 / Thermistor Module 2563 S/N A05093 / Thermometrics AS125, 4 Wire Thermistor Standard S/N 3471
- 4: Hart Scientific power base 1560 S/N 79263 / Thermistor Module 2563 S/N 79039/ Thermometrics AS125, 4 Wire Thermistor Standard S/N 4040

Temperature calibration equipment is calibrated every 36 months. All temperature calibrations and verifications are ITS-90 and NIST traceable

Sensors and temperature probes are submerged in either of two Polyscience temperature baths; PP15R-30-A11B S/N 2B1241462 or PP15R-40-A11B S/N 1C1620164.

Pressure Calibrations

Performed using Fluke P5515-140M S/N 74790, Range 0-20,000psi. Reference Standard is Paroscientific Inc. Model 785 Multi-Range Pressure Standard S/N 1567. Calibrations and verifications are implemented as per AML Oceanographic Pressure Calibration (SOP). All pressure calibrations and verifications are NIST traceable.

Conductivity Calibrations

Performed using Guildline 8400B S/N 59251 Autosal. Apparatus is calibrated and verified using Ocean Scientific International IAPSO Standard Seawater as per AML Oceanographic Conductivity Calibration (SOP). All Conductivity Calibrations and verifications are NIST traceable.

Sound Velocity Calibrations

Performed Hart Scientific Modules as in “Temperature Calibrations” above. Calibration is performed in distilled water <10 ppm TDS. Sound velocity reference is Bilaniuk and Wong’s Speed of Sound in Pure Water 148 Point Equation. Calibrations and verifications are implemented as per AML Oceanographic Sound Velocity Calibration (SOP). All temperature calibrations and verifications are ITS-90 and NIST traceable.

Turbidity Calibrations

Performed using AMCO Clear®. AMCO Clear® is a primary turbidity standard consisting of a micro polymer suspension, which is both NIST traceable and US EPA-approved. Suspensions are contained within opaque containers during calibrations. Turbidity sensor calibrations include multiple NTU points. Calibrations and verifications are implemented as per AML Oceanographic Turbidity Calibration (SOP).