

# Certificate of Calibration Quick Guide

Data logger calibration testing is required by VFC, VFA, LHD 317 and SGF Programs.

Calibrate primary and backup devices (device and probe together) every 2-3 years or according to manufacturer’s suggested timeline—ideally by a lab accredited by an ILAC/MRA signatory body. Confirm Certificate/Report of Calibration Testing will include all required information below. 2-point calibration is preferred and allows devices to be tested in refrigerators and freezers.

Accredited Laboratory (Preferred)	Non-accredited Laboratory
<p>One of these logos will appear on the certificate of calibration:</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>A2LA</p>  </div> <div style="text-align: center;"> <p>ANAB</p>  </div> <div style="text-align: center;"> <p>NVLAP</p>  </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 10px;"> <div style="text-align: center;"> <p>IAS</p>  </div> <div style="text-align: center;"> <p>PJLA</p>  </div> <div style="text-align: center;"> <p>ILAC-MRA</p>  </div> </div> <p>Certificate must also include:</p> <ul style="list-style-type: none"> <li>• Name and address of testing laboratory</li> <li>• Model/device name or number</li> <li>• Serial number</li> <li>• Date of calibration (report or issue date)</li> <li>• Measurement results for the device: Instrument <i>pass</i> or <i>in tolerance</i> testing result <b>or</b> documented uncertainty [<i>must be within <math>\pm 1^{\circ}F</math> (<math>\pm 0.5^{\circ}C</math>)</i>]</li> </ul>	<p>To determine if a certificate was issued by an appropriate entity, confirm certificate meets at least one of these standards:</p> <ul style="list-style-type: none"> <li>• Conforms to <a href="#">International Organization for Standardization (ISO)/International Electrotechnical Commission (IEC)</a> 17025 international standards for calibration testing and traceability</li> <li>• Traceable to the standards maintained by the National Institute of Standards and Technology (NIST)</li> <li>• Meets specifications and testing requirements for the <a href="#">American Society for Testing and Materials (ASTM)</a> Standard E2877 Tolerance Class F or higher</li> </ul> <p>Certificate also must include:</p> <ul style="list-style-type: none"> <li>• Name and address of testing laboratory</li> <li>• Model/device name or number</li> <li>• Serial number</li> <li>• Date of calibration (report or issue date)</li> <li>• Measurement results for the device: Instrument <i>pass</i> or <i>in tolerance</i> testing result <b>or</b> documented uncertainty [<i>must be within <math>\pm 1^{\circ}F</math> (<math>\pm 0.5^{\circ}C</math>)</i>]</li> </ul>

**Handwritten certificates of calibration are strongly discouraged.**