



When product integrity counts...

Manufacturers of laboratory calibrated temperature and humidity data loggers, real-time monitoring and cold chain solutions

Calibration vs validation

Temprecord is one of the few data logger companies in the world that builds the calibration corrections into each logger, which means there is no requirement for the user to add a correction formula to the downloaded data, reducing the potential for error or omission all together.

The difference between Validation and Calibration

- **Calibration** provides corrections required to make the logger accurate. Calibration is a comparison with a standard or reference resulting in determined corrections and uncertainties [a characterisation of the instrument] and the results of the calibration may or may not be used to adjust the instrument.

Whereas

- **Verification** is a check against a reference to verify that an instrument meets its manufacturers' broad and general specifications.

And

- **Validation** provides information on the accuracy (or inaccuracy) of the logger. Validation is a check that an instrument meets the specifications for a specific intended use [what a lab might do internally to determine that an instrument is fit for purpose].

Temprecord builds the calibration corrections into the logger firmware, so the data downloaded is accurate to within 0.2 °C without the User having to add a correction formula to the data, deleting the potential for human error or for omitting the correction altogether.

Validation of hardware and software

- All Temprecord hardware is thoroughly tested to the high standards demanded by our ISO/IEC 17025 accreditation. Our processes also require our manufacturing and laboratory staff to be trained and approved to the same high standards, becoming approved signatories.
- All Temprecord software applications are validated and a detailed Validation Package is available [upon request](#).