



RELATIVE HUMIDITY CALIBRATION KIT

FEATURES

- **Most accurate method for field calibration of capacitive probes**
- **Simple calibration procedure, no operator preparation**
- **Certified standards**
- **Precisely manufactured for reliable, uniform results**
- **Unlimited shelf life**
- **Certified accuracy by Swiss Calibration Service**

The P/N 102136 Relative Humidity Calibration Kit permits field calibration of our line of humidity measuring instruments. The procedure to follow is very simple and permits the accurate verification or adjustment of the instrument. Especially when our certified calibration standards are being used, we guarantee optimal reliability. The costly, annual certification of measuring instruments is now a thing of the past.

A calibration device is a small airtight container that fits on the probe of the instrument and seals around the humidity sensor. The calibration device is equipped with a small receptacle which is used to hold the humidity standard. After allowing for equilibration (typically 60 minutes under stable temperature conditions), a known humidity is produced inside the calibration device. At that time, the instrument can be adjusted against the reference humidity value.

The humidity standards are packaged in boxes of five sealed ampoules of the same humidity value. All ampoules contain a non-saturated salt solution that generates a known humidity value. The P/N 102136 Relative Humidity Calibration Kit includes the most frequently used values of 35 and 80% RH, which are used to perform a 2 point calibration.

Each ampoule is marked with the % RH value and a serial number. A Swiss Calibration Service (SCS) Certificate stating the traceability and uncertainty of the humidity standard is enclosed with every pack and carries the same serial number as the ampoules. SCS is accredited with the Swiss Federal Office of Metrology who is a signatory of the BIPM. The Swiss Federal Office of Metrology has registered "humidity standard" as a reference standard under the Mutual Recognition Agreement. NIST recognizes those calibrations that are registered in the BIPM database.



Calibration Device



Humidity Standards

SPECIFICATIONS

CALIBRATION DEVICES

Item	Application
EM25	P/N 101812 and P/N 102273 – screw-on P/N 102425 – compression fitting

HUMIDITY STANDARDS

Item	Description
EA35	35 %RH standard-certified
EA80	80 %RH standard-certified

UNCERTAINTY OF SCS HUMIDITY STANDARDS

Humidity in % RH	Measurement uncertainty at 23°C ($\pm 2^{\circ}\text{C}$)
35%	$\pm 0.5\% \text{RH}$
80%	$\pm 1.2\% \text{RH}$



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