

Humidity Calibration Set

General

The humidity transmitters as all other measuring instruments shall be periodically checked and eventually adjusted. The most simple solution for this purpose is the E+E calibration set.

This set consists of humidity standards and different calibration devices, carefully designed for use with E+E humidity sensor probes.

It guarantees easy and reliable instrument check. The E+E calibration set does not require specially trained technical personnel.



Calibration accuracy

The RH of each humidity standard is accurately set by a titration of the chlorine ions.

humidity value in %RH	accuracy at (23 ±2) degC
5 %RH	±0.5 %RH
10 %RH	±0.5 %RH
20 %RH	±0.5 %RH
35 %RH	±0.5 %RH

humidity value in %RH	accuracy at (23 ±2) degC
50 %RH	±0.9 %RH
65 %RH	±0.9 %RH
80 %RH	±1.2 %RH
95 %RH	±1.2 %RH

Calibration Procedure

The calibration device allows the sensor probes to be tightly installed so that the measurement is not influenced by the surrounding air.

A textile pad is placed in the chamber of the calibration device and is saturated with a solution of a known humidity value. In this manner the humidity transmitter can be accurately calibrated.

Humidity Standards

Non saturated lithium chloride solutions serve as humidity standards. These solutions are available in sets of five sealed ampoules, which may be stored an indefinite time. The lithium chloride solutions are non-harmful as they do not produce toxic fumes. Skin contact with them is likewise non-harmful.

They are dangerous only if swallowed in large quantities.

Ordering Guide

Calibration Device

calibration device for sensor probes - horizontal mounting

(HA 01 04 01)

calibration device for sensor probes - vertical mounting

(HA 01 04 02)

Humidity Standards

5 ampoules 05 %RH + 5 textile discs

(HA 01 04 05)

5 ampoules 10 %RH + 5 textile discs

(HA 01 04 10)

5 ampoules 35 %RH + 5 textile discs

(HA 01 04 35)

5 ampoules 50 %RH + 5 textile discs

(HA 01 04 50)

5 ampoules 80 %RH + 5 textile discs

(HA 01 04 80)

5 ampoules 95 %RH + 5 textile discs

(HA 01 04 95)