

DIGITAL THERMO HYGROMETER

CALIBRATION SPECIFICATION:

Our hygrometers are factory calibrated to 75%RH at 20°C. The calibration should remain stable for a minimum of twelve months from date of purchase unless the unit is physically damaged or misused. The measuring range is:

20% - 99%RH,

with a temperature range of:

0°C - 50°C / 32° - 122°F

The thermo hygrometer will record minimum and maximum values whilst it remains switched on. This memory will be lost when the instrument is switched off.

TOLERANCES:

+/- 3%, +/- 1°C / +/- 2°F.

CONTENTS:

A calibrated digital hygrometer in an insulating box.

8 metres of butyl sealing tape.

Technical data sheet.

AVAILABLE REPLACEMENT PARTS:

Battery: CR2032

Digital thermo hygrometer (electronic component only)

8 metres of butyl sealing tape

Our Digital Thermo Hygrometer is an insulated humidity hood with a built-in thermo hygrometer used for non-destructive Relative Humidity testing of screeds, concretes and other floors to international standards.

BRITISH STANDARD RECOMMENDATIONS:

British Standards code of practice BS8201, BS8203, BS5325 and US standard ASTM F2420: suggests that a concrete floor or screed should be sufficiently dry to allow installation of a resilient floor covering and tested using the insulated impermeable hood method.

PRE-TEST CONDITIONING AND PREPARATION:

For best and most accurate results, tests should be carried out after the internal conditions of the building in which the slab is located have been at normal service temperature and humidity for at least 48 hours. All artificial heating or drying equipment should be turned off at least 96 hours before final readings are attempted, otherwise results may not accurately reflect the amount of moisture present or moisture movement in the slab during normal operating conditions. Avoid testing in locations subject to direct sunlight or sources of heat. It is advantageous to know the background of the site e.g. when the floor or screed was poured, thickness levels, etc.

TESTING INSTRUCTIONS:

1. Before positioning the unit on the floor slab, the surface should be clear of any foreign materials and swept clean of any dust or loose materials that could affect a proper seal between the bottom of the unit and the surface of the floor.
2. Using butyl tape, seal the bottom of the unit to the screed / concrete surface ensuring there are no gaps and an airtight seal is achieved.
3. Once sufficient time has elapsed to allow entrapped air to reach moisture equilibrium with the screed or base, the unit can be switched on. Equilibrium can be assumed either when two consecutive readings taken at 4 hourly intervals show no change, or if the instrument is left in position for a period of 24 hours.

IMPORTANT!:

Always refer to the adhesive and/or floor covering manufacturer's recommendations for the acceptable moisture content levels of floor screeds or concretes.

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