

Measuring the Equilibrium Relative Humidity (ERH) of floor screeds and sub floor slabs

The easy way to measure the moisture status of floors, walls and surfaces to BS 8201, BS 8203 and BS 5325.



Product Description

The Digital Floor Hygrometer is designed to assist flooring professionals in determining the equilibrium relative humidity (ERH) of floor screeds and sub floor slabs as set out in BS8203 and BS5325. These two standards both state that a sub floor is considered dry at an ERH of 75% or less. Readings above these levels indicate the need for either further drying and/or the use of DPM system. Particular care should be taken when looking to the fitting of solid and laminate timber floors. Timber flooring is typically supplied at a kiln dried moisture content of between 8.5% and 9.5% (by weight). This is equivalent to approximately 35% to 45% ERH. In other words, such timber, as delivered, will be "twice as dry" as the "dry" sub floor it is destined to be fitted on. Acclimatisation and the further need to still consider a DPM system are then the order of the day.

Features and Functions

- Accurate thermo hygrometer– indicates both relative humidity and air temperature.
- Temperature measurement can be important as it affects the humidity reading.
- The thermo hygrometer also records min and max values whilst it remains switched on.
- Battery life is in excess of 5000 hours continuous use.
- It is useful to switch the hygrometer off and then back on to reset the memory before each test is carried out.
- By recording the min and max values, it is possible to see if under floor heating has been switched on for example or what the overnight temperatures may have fallen to.
- The hygrometer has been pre-calibrated at 75% RH (+/- 3%) at 20°C and should not require further attention.

Using the Digital Floor Hygrometer

- Use a Protimeter MMS™ or Surveymaster™ in search mode to establish the area or areas of greatest concern on the sub floor.
- If possible, use one Digital Floor Hygrometer for every 50m² of floor under investigation.
- Use butyl tape (provided) to make up an airtight seal around the base of the unit.
- Position the Digital Floor Hygrometer and switch the unit "on" (or "off" then "on" to reset the min/max function).
- Leave in position for 24 hours before taking the first reading.
- Take further readings over the next 24 hour period, longer if necessary.

Specifications

Measurement Range:	20-99%; Accuracy: +/- 3% 0-50°C; Accuracy: +/- 1°C
Display resolution:	1%, 0.1°
Display update:	10 seconds
Power Supply:	3v 2032 Coin Cell (included)

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