

TRAMEX™

TRAMEX™ CRH
COMBINED NON-DESTRUCTIVE
MOISTURE METER
AND THERMO-HYGROMETER
FOR THE FLOORING INDUSTRY



Excess moisture in floor slabs and screeds can cause numerous problems in all types of floor coverings leading to complete floor failure and even structural damage.

Moisture testing a floor slab prior to installation of a covering makes sense.

Why take risks when testing can be done easily and quickly with a CRH METER for non-destructive **MOISTURE** and **RELATIVE HUMIDITY** measurement of flooring.



Moisture Content Mode



RH Mode (Below Surface Method)



RH Mode (Above Surface Method)

TRAMEX™ CRH. MOISTURE CONTENT and RELATIVE HUMIDITY METER for FLOORING.

This most advanced Moisture and Relative Humidity meter measures the MOISTURE CONTENT, RELATIVE HUMIDITY, TEMPERATURE and DEW POINT of concrete and gypsum flooring.

The CRH Moisture/Humidity meter enables you to carry out 4 individual tests:

1. Measure instantly the moisture content in concrete and gypsum flooring without damaging the surface of the floor slab.
2. Measure the relative humidity, temperature and dew point within the floor slab or screed using the (below surface) in-situ method to ASTM F2170-02.
3. Measure the relative humidity, temperature and dew point above the surface of the floor slab or screed using RH hood test methods to BS 5325-2001 and BS 8202-2001.
4. Measure the relative humidity, temperature and dew point of the environment where the floor is being installed.

HOW DOES IT WORK

In Moisture Measuring Mode, it uses the principle of electrical impedance measurement to give instant non-destructive moisture content readings in concrete and gypsum floor screeds. From Electrodes with special signal enhancing spring mounted sensors on the base of the instrument a low frequency signal is transmitted into the material being tested to measure the electrical impedance which is then translated by the instrument to a moisture content reading which is displayed on the clear digital display.

In Hygrometer Mode, it uses a solid-state capacitive sensor RH probe to give accurate, fast relative humidity, temperature and dew point readings, which are displayed on the clear digital display.

While being easy and uncomplicated to operate the CRH has a powerful microprocessor controller which analyses the information received and accurately calculates and displays the moisture content, relative humidity, temperature and dew point readings of the floor slab. It has a high capacity non-volatile memory chip, which stores and retains its data in 30 files each holding 30 readings. This information can be recalled at any time by scrolling and reading directly from the Instruments own display or downloaded to a PC for storage and inclusion in a spreadsheet or report.

Features

- Two measuring modes when on mode 1 it measures moisture content in the floor slab, and in mode 2 measures relative humidity, temperature and dew point.
- Non-destructive moisture content measurement
- Stores up to 900 recorded readings in 30 files
- Recorded readings can be recalled and displayed on the clear LCD screen
- Download recorded readings to PC for transfer to word processor or Spreadsheet
- Choice of scales to suit different floor slabs and screeds (Concrete, Gypsum Anhydrite etc)
- Operates on the time proven impedance measurement principle for moisture content measurement and capacitive principle for RH measurement.

SPECIFICATIONS

MOISTURE MEASUREMENT MODE

Measurement	Non-destructive impedance
Measurement range	Concrete 0 to 7% Anhydrite and Gypsum screeds 0 to 12 (comparative)
Resolution	Reference 0 to 100 0.1% MC concrete
Housing material	ABS plastic

HYGROMETER / RH MODE

Measurement	Solid state capacitive RH sensor
Measurement range	5% to 98% RH 14° to 120°F -10° to +50°C
Resolution (RH)	0.1% RH, 1°C/°F
Housing material (PROBE)	stainless steel

GENERAL

Power supply	9volt PP3 lithium manganese battery
Software	Supplied on customised CD
Stored readings	900 readings in 30 files
Display	Large LCD
Interface	RS 232 Serial

DIMENSIONS

CRH	150mm x 80 x 35mm (6" x 3" x 1.4")
Probe	10 dia x 110mm long (0.4" x 4.3")
CRH Kit	340mm x 430mm x 100mm (13.4" x 17" x 4")
CRH only	0.35 kg (0.77lbs)
Complete Kit in case	2.9 kg (6.4lbs)

Complies with EN 50082-1 Electromagnetic Immunity.
Complies with EN 50081-1 Compatibility Emission.

Any of the components from the CRH Floor Inspection kit as shown are available separately.



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