MRH III

TRAMEX
Innovation in moisture detection

MOISTURE AND HUMIDITY METER

The Moisture and Relative Humidity MRH III is a hand-held digital moisture meter calibrated for most building materials. It also incorporates optional plug-in heavy-duty pin-type wood probes and Hygro-i2 ® probes for measurement of relative humidity and ambient conditions and allowing for testing of concrete per international standards AS/NZ 2455 and 1884, BS 8201, 8203, 5325 and ASTM F2170, (with optional sleeves or hood). Suitable for many industries including Flooring, Water Damage Restoration, Indoor Air Quality, Home Inspection and Pest Control.

3 MODES OF OPERATION:

Non-destructive testing of moisture content in wood, tracing moisture in wood based products and many other building materials such as bricks, plaster, ceramic tiles and laminates.

Pin-probe plug-in attachment (optional) for moisture content in wood and an indication of moisture conditions in wood based products.

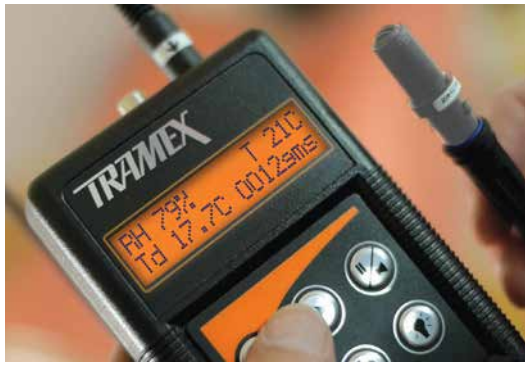
Hygro-i2 ® probe attachment (optional) for relative humidity and temperature measurement.

Product order code: MRH3

FEATURES

- Deep signal, non-destructive penetration up to 30 mm (1¼") in wood and drywall in non-destructive mode.
- Detects moisture through paint, wall coverings, drywall, ceramic tiles, floor coverings, wood, roof coverings and most building materials.
- Hold function "freezes" meter reading when inspecting areas where the meter face is not visible.
- Audio signal sounds when meter indicates high readings.
- Large clear backlit digital display giving meaningful readings.
- Accuracy in very low moisture content readings and up to 55% moisture content readings in wood in non-invasive mode.
- Attachable pin-type wood probe for invasive testing (optional).
- Adjustment of specific gravity for wood species correction.
- Attaches to a reusable relative humidity Hygro-i2 ® probe for in situ or hood testing of concrete per international standards AS/NZ 2455 and 1884, BS 8201, 8203, 5325 and ASTM F2170. (optional)
- Attachable Hygro-i2 ® Relative Humidity probe for relative humidity, temperature, dew point and grams per kilo readings all shown on one clear display (optional).

MRHIII-AU 08/18 REV.1.1



PRODUCT DESIGN

The MRH III operates on the principal of non-destructive impedance measurement. Co-planar electrodes are fitted on the base of the instrument from which low frequency signals are transmitted into the material under test, measuring the change in impedance caused by the presence of moisture. This reading is translated by the instrument into a moisture content reading.

HYGROMETER MODE

When the Tramex Hygro-i2 ® relative humidity probe is plugged into the MRH III, it automatically changes to Hygrometer Mode. The Tramex Hygro-i2 ® provides the ideal solution for measurements of ambient relative humidity, temperature and dew point conditions within the building structure and in structural materials such as concrete flooring, walls etc.

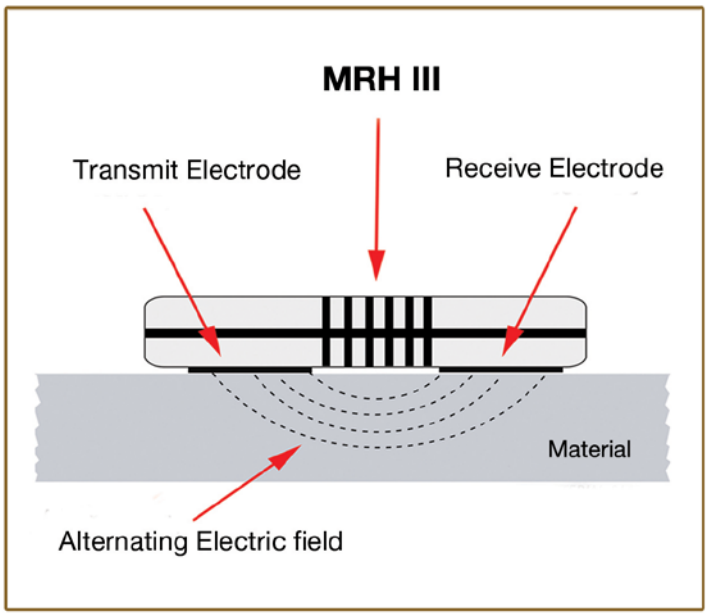
WOOD PIN-TYPE PROBE MODE

In Pin-probe mode by pluging in the optional handheld or hammer probe the MRH III becomes a resistance type pin meter for determining the moisture content of wood and wood based products. The MRH III gives moisture content readings from 7% to 40% in wood. A species adjustment table and a temperature adjustment chart are supplied for precise readings in woods of varying densities and readings taken in various temperatures.

SPECIFICATIONS (meter only)

Size:	150mm x 85mm x 38mm (6" x 3.5" x 1.5")
Weight:	8.47oz (240g)
Construction:	ABS Body
Power:	9 volt PP3 Battery (included)
Display:	Digital / Backlit
Depth of penetration:	up to 30mm (1¼")

HOW IT WORKS



MEASURING RANGE

Reference scale for building materials	0 to 100
Relative Humidity (with optional Hygro-i2 ® probe)	0 to 99%
Humidity accuracy:	0% to 99%RH +/- 2% @ 25°C / 77°F
Wood Non-invasive Mode	5 to 55%MC (at SG of 0.3)
Wood Invasive Mode (with optional wood pin probes)	7 to 40%MC

Cornell Group Pty Ltd,
PO Box 73, Gordon NSW 2072, Australia
Email: sales@cornell.com.au | Tel: (02) 9418 1002

www.cornell.com.au