

MOISTURE DETECTION

Applications

Enables measurement of moisture conditions in buildings from various perspectives to aid understanding of how and why damp conditions may prevail. Combines moisture meter and hygrometer functionality in one state-of-the-art instrument for a complete moisture surveying capability. Use to:

- Identify presence of moisture on and below surfaces
- Quantify Wood Moisture Equivalent levels of materials
- Measure relative humidity and temperature of air
- Confirm the occurrence of condensation on surfaces

Features

- **Ergonomic Design.** Operational modes are selected at the touch of a button and information is presented on a large, back lit liquid crystal display. The radio frequency sensor has been positioned so that a large number of moisture readings can be taken quickly and tirelessly and the Hygrostick hygrometer sensors react quickly to changes in ambient temperature and relative humidity.
- Using moisture meter and hygrometer modes in combination gives complete diagnostic capability. Search and Measure moisture meter modes distinguish sub-surface moisture from surface moisture in materials and the Condensator mode confirms the presence - or otherwise - of condensation on surfaces.

Modes

• Moisture Meter Search Mode

A radio frequency moisture sensor located in a bulge at the top of the instrument is held against a surface to obtain a relative moisture level reading within the material (to a max depth of 20mm in dense homogenous materials). Used to establish if high moisture levels within material warrant more detailed investigation. Does not mark or damage surfaces.

• Moisture Meter Measure Mode

By pushing two electrode needles into materials, a precise moisture measurement can be obtained. Actual moisture content values for wood and (%WME) wood moisture equivalent values for masonry are displayed, together with text messages detailing if the material is in **dry**, **borderline** or **damp** condition. Deep Wall Probes can be used to quantify the moisture levels at varying depths.

• Hygrometer Mode

With the Hygrostick hygrometer probe connected, the instrument measures relative humidity, ambient temperature and dewpoint. Hygrosticks can be embedded in solid floors and walls to obtain a material's equilibrium relative humidity (ERH) value.

• Condensator Mode

Specialised hygrometer mode for assessing risk - or confirming the presence - of condensation on surfaces. Display of difference between the surface temperature and the dewpoint together with text confirming whether or not condensation is occurring with the Surface Temperature Sensor connected and held against a surface. *Optional* infra-red remote surface temperature sensor can also be used for rapid condensation risk analysis.



Supplied with

- Protimeter MMS instrument , Hygrostick hygrometer probe
- Hygrostick extension lead, Moisture probe
- Deep wall probes (length 140mm)
- Surface temperature sensor (direct contact)
- Calibration check device (for %WME)
- Instruction manual, Carry case
- **Optional:**
- Humidity Sleeves in packs of 20, 50 & 100

Specifications

Range

- Search mode: 0 to 1000 relative scale, nominal depth of measurement up to 10mm at tolerance ± 10 to 20mm in dense homogenous materials
- Measure mode: 6 to 29 %WME;
30 to 100 relative scale in saturated material
- Hygrostick probe: Measurement range 30 to 98%rh & 0 to 50°C
Calibration range:
(i) 35 to 95%rh, nom. tolerance $\pm 1.5\%rh @ 20^\circ C, 50\%rh$
(ii) 5 to 40°C, nom. tolerance $\pm 0.5^\circ C$
Surface temperature range: -20 to 50°C

- Dimensions: 180 x 70 x 45mm
- Power: 2 x 9V batteries
- Weight: 300g

Also available: MMS-Plus

RS232 transfer of measurements to computer via software supplied.

Especially useful to the disaster restoration industry that often needs to measure the actual moisture level of an atmosphere and to measure the performance of dehumidifiers.

- Displays the *mixing ratio* or *specific humidity* in either g/kg in dry air, or grains/lb.
- May be used with an optional very low humidity range probe.
- Stores approx 700-1000 measurements in memory.

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