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The moisture you cannot see matters most when cleaning and restoring a property after water damage from storms, floods or fires. From hidden mold to unseen structural damage, undetected moisture damages health and property and its oversight can create liability. That's why the right moisture meter makes all the difference.

The MMS Plus is a complete moisture measurement system in one easy-to-use robust instrument.

- Hygrometer mode measures relative humidity, ambient temperature, dew point and grains per pound with a replaceable Hygrostick™ probe
- Pin measure mode determines moisture content of wood and Wood Moisture Equivalent (WME) in other building materials
- Pinless measure mode uses radio frequency to detect moisture non-invasively

Features

- Automatic grains-per-lb calculations for specific humidity
- Data storage with PC interface
- Interchangeable Hygrostick and Quickstick™ probes

MMS Plus

Protimeter Moisture Measurement System

The MMS Plus is a Protimeter product. Protimeter has joined other GE high-technology sensing businesses under a new name– GE Industrial, Sensing.

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Three-In-One Moisture Measurement System

Measure moisture in wood and wood floors, drywall, concrete and concrete block, stucco, plaster, masonry and other building materials.

- Diagnose the extent of moisture intrusion for damage assessment and monitor drying out of building structures
- Use deep wall pin-type probes to measure moisture in walls, wall cavity insulation, sub and surface structures

Measure

Search behind ceramic tile, fine finishes, water stains, tile and vinyl floor coverings, wood, drywall, plaster, masonry, concrete and concrete block.

- Non-invasive pinless radio frequency finds moisture up to 3/4 in (19 mm) below surface
- Search mode not adversely affected by surface moisture
- Zero function for temperature variances

Search

Hygrometry checks the dehumidification process and monitors buildings for adequate ventilation affecting indoor air quality.

- Measures moisture in concrete floors using ASTM F2170-02
- Measures relative humidity and temperature, dew point and surface temperature, surface proximity to dew point (condensation) and grains per pound
- Use to detect conditions for mold and fungus growth, that can lead to unhealthy living conditions

Hygrometry

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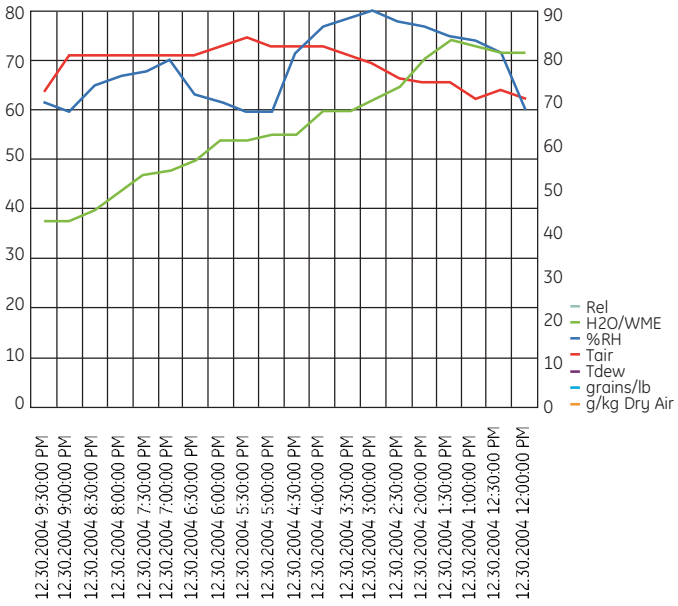
Data Storage Functions

When concise and accurate environmental readings need to be reported, the MMS Plus gets the job done. The ability to record readings instantly at the push of a button makes this instrument ideal for many applications including:

- Fire and flood restoration
- Concrete floor moisture measurement
- Indoor air quality
- Environmental health



Automatic graphing with Windows®-based PC.

Humidity Probe Options

The MMS Plus may be used with two styles of interchangeable humidity probe, the Hygrostick and the Quickstick.

Hygrostick part number POL4750, standard with MMS kit BLD5800LH

Quickstick part number POL78750, standard with MMS kit BLD5800HS

Concrete Floor Moisture Measurement

ASTM F2170-02 is the new test method for measuring equilibrium relative humidity directly in concrete slabs. Protimeter pioneered this more accurate method, which includes drilling holes in the concrete, inserting a humidity sleeve and measuring the equilibrium humidity in the concrete. If excessive moisture is found, one simply replaces the sleeve cap for future retesting. This method also permits normal construction without disturbing the test surface.

A small hole is drilled in the concrete. Next, a humidity sleeve is inserted and capped flush with the floor. The relative humidity of the air in the test hole is now at the same moisture level as the concrete around it. Flooring product manufacturers normally recommend RH readings between 75% and 85% depending on the permeability of the product being installed. See ASTM F2170-02 for exact test procedure.

Readings from multiple Hygrosticks can be taken and recorded with ease.

Humidity readings can be taken with the use of humidity sleeves or humidity box. Hygrosticks, not Humisticks, should be used for this test.

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MMS Plus Specifications

Included as Standard
- Instrument with grains/lb automatic calculation
- Data download software with cable
- Hygrostick (BLD5800LH) or Quickstick (BLD5800HS)
- Surface temperature sensor
- 5 in (127 mm) deep wall probes
- Pin moisture probe
- Hygrostick/Quickstick extension lead
- Wood calibration chart
- Calibration check device
- Spare pins
- Instructions and nylon zipper pouch

Gross Weight
10.58 oz (300 g) instrument only. 2.5 lb (1.1 kg) complete kit

Dimensions (LxWxH)
7 in x 2.75 in x 1.9 in (180 mm x 70 mm x 49 mm)

Maximum Needle Depth
0.4 in (10 mm)

Display
LCD

Batteries (Included)
2 AA

Moisture Measurement Range
Pin (% WME) 8% to 99, readings over 30% are relative
Non-invasive (RF) up to 3/4 in (19 mm) deep
60 to 1000 (relative)

Surface Temperature Probe Range
15°F to 120°F (-10°C to 50°C)

Hygrostick Data (Nominal)
30% to 40% RH (±3% RH) at 68°F (20°C).
41% to 98% RH (±2%) at 68°F (20°C).
Range 32°F to 122°F (0°C to 50°C) ±0.6°F (±0.3°C)

Quickstick Data (Nominal)
0% to 10% RH, ±3% RH at 68°F (20°C),
10% to 90% RH, ±2% RH at 68°F (20°C),
90% to 100% RH, ±3% RH at 68°F (20°C),
Range 32°F to 122°F (0°C to 50°C) ±0.6°F (±0.3°C)
Nominal response 30% to 90% and back to 30% RH in 45 seconds @ 68°F (20°C)

Quicksticks for meters made with firmware version 3.15 or higher.

Data Storage
Store up to 1,000 results with date and time stamp from all instrument functions.

Part Number
BLD5800LH–MMS kit with Hygrostick
BLD5800HS–MMS kit with Quickstick

Accessories

Hammer Electrode (BLD5055)
Measures moisture to a depth of 1.38 in (35 mm). Weight 3.25 lb (1.5 kg).

Humidity Sleeves (BLD4750HS)
20, 50 and 100 packs available for measurement of RH% in concrete slabs.

Hygrostick (BLD4750C)
Five pack standard. Three point calibration. Traceable calibration certificate (part number BLDCERT) available.

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