



Meets  
ASTM F2170

# Measurement & Sensing Technologies GE Protimeter

Find Moisture

- Wood
- Concrete
- Tile
- Vinyl

## VERIFY IT'S DRY BEFORE INSTALLING FLOORING

### Contractors Know the Problems

Excessive moisture can cause hardwood floors to warp or crack, tile to lift, and laminate to fail. A newly-poured floor slab is usually the slowest-drying element of a building, and rain during construction can also trap moisture in subfloor and framing materials. Fixes and replacements are costly. That's why accurate, rapid, easy-to-perform Equilibrium Relative Humidity (ERH) ASTM standard moisture evaluation measurements by Protimeter instruments are so cost-effective.

## FOR FLOORING APPLICATIONS

### Measure



- Pin type probes measure moisture in wood and evaluate the moisture condition of other flooring materials for quick overview prior to the use of more conclusive testing.
- Deep wall probes and Hammer Probe to assess the moisture at user determined depths.

**Instruments:** Mini, Surveymaster, Timbermaster, MMS

### Search



- Non-invasive pinless radio frequency finds moisture - up to 1" below surface.
- This mode of measurement is not adversely affected by the presence of surface moisture, i.e., condensation. Useful for the rapid evaluation of moisture near the surface of a concrete slab prior to the use of more conclusive tests.
- Map out failures beneath existing floor coverings like tile, vinyl and wood.

**Instruments:** Surveymaster, MMS

### Hygrometry



- Measure ambient Relative Humidity, temperature, dew point, surface temperature and surface proximity to dew point.
- Measure the internal equilibrium relative humidity of concrete to ASTM F2170 standard as an alternative to calcium chloride tests. Use in conjunction with humidity sleeves (BLD4902) and surface humidity box (BLD4711) with the standard Hygrostick or for more wide spread and quicker measurement using the pack of 5 probes (BLD4750C). This method is time saving and accurate. Ask for our free datasheet entitled Dampness Measurement in Concrete Floors.

- Check dehumidification process, monitor buildings for adequate ventilation affecting indoor air quality, detect the presence of condensation.

**Instruments:** Hygromaster, MMS

## Protimeter Instruments

### MMS



3 meters in one to identify, diagnose and monitor moisture problems:

- **Hygrometer Mode** measures relative humidity, temperature, dew point and proximity to dew point with modular, replaceable Hygrostick™.
- **Pin Measure Mode** determines moisture content of wood and Wood Moisture Equivalent (WME) value of building materials.
- **Pinless Measure Mode** uses radio frequency for non-invasive moisture detection.

### Hygromaster



Versatile hygrometer measures relative humidity, temperature and dew point:

- Large LCD display in 0.1% increments.
- Modular, replaceable Hygrostick probe.
- Optional surface temperature probe (BLD4701) for a range of applications.

### Surveymaster SM



2 meters in one with these built-in functions:

- **Search Mode** uses non-invasive radio frequency to detect moisture below the surface and behind finishes.
- **Measure Mode** uses pin electrodes or deep wall probe (included) for precise measurements in common building materials.

### Mini



General purpose, pin-type instrument for a broad range of construction materials

- Ultra-bright, easy-to-read, scaled green/yellow/red LED display.
- Versatile, 6-90% measurement range.
- Ergonomic, easy-to-use design.

### Timbermaster



Used when installing hardwood floors over wood subflooring.

- LCD displays moisture content and temperature with automatic correction.
- Includes one Protimeter Hygrostick to measure ERH.
- Ergonomic, easy-to-use design.

	<b>MMS</b>	<b>Timbermaster</b>	<b>Surveymaster SM</b>	<b>Hygromaster</b>	<b>Mini</b>
<b>Product Code</b>	<b>BLD5800</b>	<b>BLD5601</b>	<b>BLD5350</b>	<b>BLD4700</b>	<b>BLD2000</b>
<b>Includes as standard:</b>	Instrument, 5" wall probes, heavy duty pin lead, Hygrostick probe, surface temperature sensor, Hygrostick extension lead, wood calibration chart, calibration check device, spare pins, instructions, nylon pouch	Instrument, heavy duty extension lead, temperature probe, wood calibration chart, calibration check device, spare pins, instructions and nylon pouch	Instrument, heavy duty pin extension lead, deep wall probes, wood calibration chart, calibration check device, spare pins, instructions, nylon pouch	Instrument, Hygrostick instructions, nylon pouch	Instrument, extension lead, wood calibration chart, calibration check device, spare pins, instructions, nylon pouch
<b>Gross Weight</b>	10.58 oz. (300 g)	5.3 oz. (150 g)	7 oz. (200 g)	5.3 oz. (150 g)	5.3 oz. (150 g)
<b>Dimensions (LxWxD)</b>	7 x 2.75 x 1.9" (180 x 70 x 49 mm)	7 x 2 x 1" (180 x 49 x 28 mm)	6.7 x 2 x 1.6" (170 x 53 x 40 mm)	7 x 1.9 x 1" (180 x 49 x 28 mm)	7 x 1.9 x 1" (180 x 49 x 28 mm)
<b>Max. needle depth</b>	0.4" (10 mm)	0.4" (10 mm)	0.4" (10 mm)	N/A	0.4" (10 mm)
<b>Display</b>	LCD	LCD	LED and LCD	LCD	LED
<b>Batteries (included)</b>	2 AA batteries	2 AA batteries	2 AA batteries	2 AA batteries	2 AA batteries
<b>Measurement range</b>					
<b>Pin (% WME)</b>	6 - 99	7.0 - 99.9	6.0 - 99.9	N/A	6 - 90
<b>Non-Invasive (RF)</b>	0-1000 (relative) up to 1" (25.4mm) deep	N/A	6-100 (relative) up to 3/4" (19.05mm) deep	N/A	N/A
<b>Hygrostick (RH)</b>	20 -100% RH, 32° - 122°F (0° - 50°C)	N/A	N/A	20 -100% RH, 32° - 122°F (0° - 50°C)	N/A
<b>Temp. probe range</b>	15° to 120°F (-10° to 50°C)	15° to 120°F (-10° to 50°C)	N/A	15° to 120°F (-10° to 50°C)	N/A
<b>Hygrostick data</b>					
30 - 40% RH nominal	±2.5% RH	N/A	N/A	±2.5% RH	N/A
41 - 98% RH nominal	±1.75% RH	N/A	N/A	±1.75% RH	N/A
0.5° - 122° F (-18° to 50° C)	±4.5° F (2.4°C)			±4.5° F (2.4°C)	

## Accessories



**Surface Humidity Box BLD4711**  
RH% measurement where drilling is not desirable.



**Hammer Electrode Standard BLD5000\***  
measures moisture to a depth of 1.38" (35mm).  
Wt. 31.75 oz. (0.9 kg)



**Deep Wall Probe BLD5020\***  
measures wood moisture equivalent at depth in concrete and other structures.  
Length: 9" (230mm)



**Humidity Sleeves BLD4902**  
20 pack. Measurement of RH in concrete slabs.  
ASTM F2170



**Surface Temperature BLD4701\*\***  
for measuring surface temperatures when investigating dew point or condensation conditions.



**Hygrostick Extension BLD5802\*\***  
enables the user to take RH/temperature readings more easily in materials and inaccessible areas.

**Hygrostick BLD4750C\*\***  
standard 5 pack 4 pt. calibration. Traceable calibration certificate available.

\* Except Hygromaster

\*\* MMS and Hygromaster Only

*Avoid costly mistakes...*

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**Surveymaster SME Probe Kit BLD5377**

for rapid non-invasive evaluation of moisture in large floor areas.

## Measurement & Sensing Technologies GE Protimeter

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