GE
Measurement & Control

Surveymaster™
Protimeter Dual-Function Moisture Meter

The Surveymaster™ can help building professionals—such as contractors, surveyors, home builders and architects—assess building moisture levels during new build and refurbishing activities. Excessive moisture in buildings can lead to decay and deterioration of components and decorative finishes. Professionals involved with the identification, management and remedy of moisture need tools that help them to:

- Identify the extent of the moisture penetration
- Diagnose the cause of the problem
- Monitor change in the moisture level

Protimeter moisture meters and hygrometers satisfy these requirements comprehensively. The Surveymaster™ is the preferred industry choice for surveying and investigating moisture in buildings.

Two Operational Modes

This reliable moisture meter has two modes of operation—search and measure. These functions can help the user to distinguish sub-surface from surface moisture, essential information when trying to establish the extent and cause of a dampness problem.

Search Mode—Non-Invasive

The search mode is used to assess the moisture level beneath the surface of solid walls and floors independently of surface conditions. The nominal depth of the measurement is 3/4 inch (19 mm); this depends on the density and other characteristics of the material being measured. When held against the surface, as shown below, the instrument transmits a signal into the material. The relative moisture level is shown on the digital display and its moisture condition is shown on the accompanying scale of color-coded lights. This measurement presentation helps the user to:

- Look for moisture behind wall and floor coverings, such as tile and vinyl.
- Assess, in relative terms, if the material is in a dry, borderline or damp condition.
- Map the extent of the problem numerically.
- Non-invasive pinless radio frequency finds moisture at depth where moisture is not always directly visible—up to 3/4 in (25.4 mm) below the surface.
- This mode of measurement is not adversely affected by the presence of surface moisture.

Applications: Shower pans, behind ceramic tile, fine finishes, water stains, tile and vinyl floor coverings, joists, around toilets, drywall, below grade floors and walls, plaster, masonry, concrete and concrete block.

Note: Metal additives in concrete can create false positive readings.

Measure Mode—Pin-Type

This mode is used to measure the moisture level at the surface and at incremental depth, when used with the auxiliary probes. Measure mode readings are precise and specific to the immediate area of contact of the electrodes. The actual moisture content of wood is shown on the digital display with the corresponding moisture condition shown on the accompanying scale of color-coded lights. Wood Moisture Equivalent (WME) values are shown for other non-conductive, porous building materials.

- Pin-type probes measure moisture in wood and other building materials (use provided wood species calibration chart for more precise readings)
- Deep wall probes establish the presence of moisture in wall cavity insulation, sub and surface structures

Options

- Exterior Insulation and Finished Systems (EIFS) probe finds moisture in exterior insulation finishing systems
- Hammer electrode for wood floor applications

Applications: Wood and wood floors, subfloors, drywall, concrete and concrete block, stucco, plaster, masonry and EIFS.

Reference mode (Patent Pending)

In both Pin and Search mode, GE's patent pending Reference Mode can be used. Reference mode can be useful when trying to establish what materials are above or below a point of reference or dry standard.

Measure the dry standard or baseline material until the meter's reading is stable then press for seconds. This will store the reading until the mode changes of the meter turns off. Now all readings taken after will be displayed as normal, but below you will see a second reading that shows you if the material is measured above or below the original reading.

Surveymaster™ Specifications

Rapid, non-invasive and pin moisture evaluation in building materials. Detects moisture directly in materialssuch as concrete and below wall and floor coverings such as tile, wood and vinyl

Range
70 to 999 relative (non-invasive)
Dry (green) —70-169
At risk (yellow) —170 - 199
Wet (red) —200-999

7.9% to 99% WME (pin measurement)
Dry (green)-7-16.9
At Risk (yellow) 17-19.9
Wet (red)) — 20-99.9

Display 1
Digital LCD backlit

Display 2
60 LEDs green (dry), yellow (at risk) and red (wet)

Depth of moisture
Non-invasive up to 3/4 in (19 mm)
Pin up to 1/2 in (12.7 mm)

Case
Pouch with belt loop

Power
9 V (supplied)

Warranty
2 years on mechanical or manufacturing defects. Does not include wearing part or accessories.

Options

Hammer electrode
BLD5055

EIFS Probe
BLD5070

Part Number
BLD5365

Technical Specifications

Standard Supply
Instrument, 5 in (127 mm) deep wall probes, moisture probe, calcheck, 2 spare pins, pouch and instructions

Weight, Including Batteries
8 oz. (225 gm)

Dimensions
7.5 in x 2.75 in x 1.9 in (190 mm x 70 mm x 49 mm)

Battery
One 9 V 6F22R

Features
User adjustable features:
- Auto shut off 1-6 mins.
- Hold feature
- Backlight on/off.
- Audible on/off.
- Dry, At Risk and Wet Indicator on/off.

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