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## Protimeter Mini



**Code: 354800**

## Operating Instructions

# Protimeter Mini Moisture Meter

The Protimeter Mini is used to measure the moisture content of wood and the wood moisture equivalent (WME) value of other non-conductive materials.

## Using The Protimeter Mini

Remove the cap to expose the needle electrodes. Switch the instrument on by pressing the button to the side of the moisture scale. Ensure that the battery symbol is illuminated. Push the pins into the surface of the material to be tested and observe the reading. Alternatively, take moisture readings by using optional electrodes connected via the jack socket on the right-hand side of the instrument. After use, replace the cap and switch off by pressing and holding the button for a minimum of 3 seconds. To conserve battery life, the instrument switches off automatically after five minutes.

## Measurement Range and Interpretation

In wood, the Protimeter Mini measures the moisture content from 6 - 28%, the level at which the fibres are saturated. In other non-conductive materials the instrument measures the WME value up to 28%. The WME value is the theoretical moisture level that would be attained by wood that is in moisture equilibrium with the material being tested. The full measurement range is 6 - 90, but values over 28 are relative; they indicate increasingly high levels of moisture rather than actual moisture content.

The colour coded zones signify the moisture condition of the material under investigation. Material in the green zone is in a safe air-dry condition. In the yellow zone moisture levels are higher than normal but not critical; further investigation is recommended. The red zone represents excessive moisture levels. If sustained, red zone moisture levels will lead to decay and mould growth.

## Batteries

One 9v PP3 size battery powers the Protimeter Mini. Replace this when the battery symbol flashes by removing the cover on the back of the instrument. Ensure correct polarity when inserting new battery.

## Calibration Check

Check the calibration of the Protimeter Mini by holding the electrode needles across the exposed wires of the Protimeter Calcheck device. Correctly calibrated instruments will register a value of 17 - 19. Instruments that register a value outside this range should be returned to York Survey Supply Centre for servicing.

## Care and Maintenance

Store the instrument in a dry and stable environment. Remove the batteries if the instrument is not in regular use.