PROTIMETER DIGITAL MINI
Moisture meter – instructions for use

The Protimeter Digital Mini is an accurate single species group moisture meter with resolution of 0.1%. It has two pin-probes mounted in the head and a 3.5mm socket beside them for use with accessories such as the Standard Heavy Duty Hand Probe, Deep Wall Probes and Hammer Probe.

THE RANGE of the digital read-out is from 8% to well above fibre saturation (28%) moisture content in wood. Readings above 28% indicate increasing levels of high moisture, but they are **not** percent moisture content.

The equivalent across this scale in *building materials* (plaster and brick) is from safe/dry to dangerously damp, the instrument will read moisture content on plaster and brick on a *relative* basis only.

TO SWITCH ON remove cap which can be stored on the boss at the bottom of the meter whilst meter is in use, then press square ON button. If green light does not show the battery should be replaced - see overleaf. Push pins firmly into wood or against building material. As pins penetrate wetter (deeper) material, the reading will rise. Continuous display of 'B' in display indicates low battery.

SWITCH OFF is automatic after 14 seconds, with or without cap in place.

TOUCH SENSOR: For veneers or surfaces where pin holes are unacceptable, unscrew nuts, remove pins, replace nuts and use rounded tips of nuts only (Touch Sensor mode). Note that where surface is covered by a material impervious to battery current (eg. Vinyl wallcovering) then pin probes *must* be used.

THIS DIGITAL MINI IS CALIBRATED: to give direct moisture content readings in the *European redwood (pinus sylvestris) species Group 'A'.* (The Group 'A' are the red markings on all VERUS Checkbox-Calibrators). Refer to Calibration Tables supplied for other wood species and their required adjustment.)

For a description of the effects of wood sheet materials, contaminating salts and carbonaceous materials on meter readings, see Verus Datasheets. Colour-codes on the facia indicate the importance of readings on *wood* as follows -

Green: 'Air-dry' condition - most types of decay impossible if the meter is accurate and readings are obtained by a skilled user.

Yellow: Slightly in excess of normal air-dry, investigate further.

Red: Excess moisture - decay inevitable, take remedial action.

TO CHECK CALIBRATION: across the range of readings it is necessary to use an optional Checkbox☐ /Calibrator such as the **VERUS II** which checks a meter or any accessory plugged into the meter at several scale points. For ISO 9000 registered companies this is the most practical way of achieving necessary accuracy and traceability. As a rough check at a single point use 'Protimeter Check' test device (supplied) by pressing the two pin probes of the meter (or accessory) against the two exposed wires. Reading should be 18±1%, if not the instrument or the faulty accessory should be returned to VERUS for repair or adjustment. Note this meter is capable of being set to ±0.4% emc.

TO FIT NEW BATTERY: remove battery cover at the base of the instrument and, observing polarity markings, insert 9v type PP3. Store instrument in a dry place and to avoid damage to the instrument, remove dead battery immediately.

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JH/JW/03/14