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inspection equipment

Elcometer 7000 Digital Moisture Meter

The Elcometer 7000 range offers accurate and easy to use moisture measurement.

Available with pin probes or non-invasive for non-destructive testing, the gauges give average moisture content by comparing the change in impedance between damp and acceptably dry substrates.

- Calibrated ready for use
- Instant readings on a clear, easy to read scale
- Fully portable, battery operated and non-destructive

Types of Moisture Meters

On porous materials such as concrete, plaster, brick, wood, the moisture content of the substrate should be measured, as the presence of moisture within a material will result in poor adhesion, premature coating failure and poor appearance.

It is not sufficient to simply ensure that the surface is dry as often the surface of the substrate is the driest point – due to evaporation. It is important to establish the moisture content within the substrate itself.

When powder coating wooden panels, for example, if the wood (or mdf) has too high a moisture content, as the panel passes through the oven, the moisture is heated, generating steam – causing significant coating finish issues.

Applying a coating to a concrete floor which is too damp can cause premature adhesion failure. Moisture meters have been developed to specifically determine the level of moisture in a substrate and come in two forms:

Pin-type moisture meters: Invasive pins are pushed firmly into the surface of the substrate being measured and by measuring the electrical resistance between the pin electrodes provide the percentage moisture content (%MC) in the substrate.

Pinless, contact-type moisture meters: Whilst pinless meters typically measure moisture content faster and are non-destructive they do require a relatively flat surface because the sensors are mounted on the base of the gauge making them ideal for concrete.

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Technical Specification

Model	Elcometer 7000S Concrete Moisture Meter	Elcometer 7000PS Digital Moisture Meter	Certificate
Part Number	G7000S	G7000PS	○
Measuring Range	70 to 999 relative (non-invasive) Dry (green); 70 - 169 At risk (yellow); 170 - 199 Wet (red); 200 - 999	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	
Measurement Depth	Non-invasive up to 19mm (3/4")	Non-invasive up to 19mm (3/4") Pin up to 12.7mm (1/2")	
Display	LCD Display with separate colour indicators		
Dimensions	175 x 48 x 50mm (7.0 x 1.9 x 2.0")	190 x 70 x 49mm (7.5 x 2.75 x 1.9")	
Weight	195g (7oz)	225g (8oz)	
Power Supply	9V battery (~ 20 hours continuous use)		
Packing list	Elcometer 7000 Moisture Meter, HD MC probe (Model PS), Deep Wall probe 127mm (5") (Model PS), pin calibration check (Model PS), wood calibration chart (Model PS), battery, carry case and operating instructions		

○ Optional Calibration Certificate available for Elcometer 7000PS Digital Moisture Meter only

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