

Elcometer 7410 Concrete Moisture Meter

The Elcometer 7410 Concrete Moisture Meter is an accurate and easy to use non-invasive instrument for non-destructive measurement of moisture content of concrete.

The electrodes transmit parallel low frequency signals, calibrated to give average moisture content by comparing the change in impedance between damp and acceptably dry concrete.

- Calibrated ready for use on concrete
- 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

Part Number	Description	Certificate
K0007410M001	Elcometer 7410 Concrete Moisture Meter	●
Measuring Range	Concrete 0 - 6%, Floor screed 0-10%	
Substrate Type	Concrete, gypsum floor screed	
Measurement Depth	12.5mm (0.5")	
Dimensions	155 x 85 x 43mm (6.1 x 3.3 x 1.7")	Weight 298g (10.5oz)
Power Supply	9V PP3 battery (6F22 (PP3) type)	
Packing list	Elcometer 7410 Concrete Moisture Meter, battery, carry case, calibration certificate and operating instructions	

● Certificate supplied as standard.