

Elcometer 138 Conductivity Meter



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Incorporating a flat sensor, the Elcometer 138 Conductivity Meter can measure the conductivity of a solution from a single drop of a sample.

Users can either place a sample on the meter's flat sensor or immerse the meter directly in the solution being tested, giving the meter a broad range of applications, for example, measuring rainwater pollution levels or the electric conductivity (EC) of solutions used in agricultural operations.

Also, the Elcometer 138 Conductivity Meter includes a convenient salinity conversion indicator. The meter can be directly immersed in solutions to take measurements, enabling convenient testing of such solutions as river water.

- **Highly precise measurements can be obtained from a single-drop sample.**
- **Waterproof flat sensor**
- **Automatic range switching gives a wide measurement range of 1µS/cm to 19.9mS/cm**
- **When the conductivity value is above 20mS/cm or the salinity is above 1.1%, the display will flash.**
- **Battery Alarm when the battery is low.**
- **The "°C" indicator light appears when the sample is below 5°C (41°F) or above 35°C (95°F)**

Surface Cleanliness

During the initial surface preparation, in addition to brushing or grinding, a coated surface can be blasted, high pressure water-jetted or simply washed down. In many cases, the abrasive media or water is recycled. In these instances, it is important that the level of contaminants in the recycled material is carefully monitored to avoid the re-contamination of the surface being cleaned.

Surface contamination from salt ions such as chlorides, sulphates and nitrates has been shown to lead to delamination, blistering and premature coating failure. The measurement of the cleanliness of a surface prior to the application of a coating is, therefore, necessary to ensure the substrate, or coated surface in multi-layer systems, is clean of all contaminants prior to the application of the next coating.

TECHNICAL SPECIFICATION	
Measuring Range	1 μ S/cm - 19.9mS/cm
Repeatability	\pm 1% full scale
Ambient Temperature	5°C - 35°C
Accuracy	\pm 2% full scale \pm 1 digit (over 10 mS/cm: \pm 3% full scale \pm 1 digit)
Dimensions	150 x 27 x 16mm (6 x 1 x 0.6")
Weight	47g (1.7oz)
Part Number	T13818515 Elcometer 138 Conductivity Meter
Packing List	2 x bottles of standard solution (1.41mS/cm), bottle of de-ionised water, 2 x CR-2032 lithium batteries, pipette, storage pouch and operating instructions

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Related Products



Elcometer 138 Bresle Salt Kit

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It is essential that the level of contaminants on a surface is measured prior to application of the coating to ensure the quality of the coating and that its optimum lifetime is achieved.



Elcometer 130

Elcometer 130 Salt Contamination Meter

Soluble salts on a surface are absorbed into a special filter paper soaked with distilled water. The Elcometer 130 measures the conductivity of the wet paper, calculates the salt level and displays it in μ g/cm².



Elcometer 138/2

Elcometer 138/2 Surface Contamination Kit:

Supplied with Elcometer 135A Bresle Samplers and various test strips, this kit provides a low cost, simple method of measuring the salt, pH, chloride and iron (ferrous ion) concentration on a test surface in accordance with ISO 8502-6.