

Surface Preparation - Cleanliness

**elcometer**<sup>®</sup>  
inspection equipment

## Elcometer 138 Conductivity Meter


### Accessories

T13830628	Replacement Sensor
T13830629-2	Standard 1413 $\mu$ S/cm Calibration Solution, 250ml (8.45fl oz) Bottle

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## Elcometer 138 Conductivity Meter

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 conductivity meter's flat sensor or immerse the meter's sensor directly into the solution under test. The Elcometer 138 Conductivity Meter can be used for a broad range of applications, including: soluble salt concentrations, the electric conductivity (EC) of solutions used in agricultural operations and measuring rainwater pollution levels.

The Elcometer 138 Conductivity Meter features:

- Highly precise measurements can be obtained from a single drop
- Automatic range switching gives a wide measurement range of  $1\mu\text{S}/\text{cm}$  to  $19.99\text{mS}/\text{cm}$
- Out of range and low battery alarms
- Visual indication when ambient temperature is outside the operating range



### Technical Specification

Part Number	Description
<b>E138-CM</b>	Elcometer 138 Conductivity Meter
Measurement Principle	2 Electrode Bioplar AC
Measurement Mode	Conductivity, Temperature
Minimum Sample Volume	0.12ml
Measurement Range	0 - 19.99mS/cm
Resolution	0 - 1999 $\mu\text{S}/\text{cm}$ : $1\mu\text{S}/\text{cm}$ 2.00 - 19.99mS/cm: 0.01mS/cm
Accuracy	$\pm 2\%$ full scale (for each range)
Operating Temperature	5°C to 40°C (41°F to 104°F)
Operating Humidity	85% or less relative humidity (no condensation)
Battery Type	2 x CR2032 lithium batteries
Battery Life	approx. 200 hours of continuous use without backlight
Weight	50g (1.76oz) - including sensor and batteries
Dimensions	164 x 29 x 20mm (6.5 x 1.1 x 0.79")
Packing List	Elcometer 138 Conductivity Meter, 14ml (0.5fl oz) bottle of conditioning solution, 14ml (0.5fl oz) bottle of standard 1413 $\mu\text{S}/\text{cm}$ calibration solution, 2 x CR2032 lithium batteries and operating instructions