

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 meter's flat sensor or immerse the meter's sensor directly into the solution under test.

The Elcometer 138 can be used for a broad range of applications, including: soluble salt concentrations the electric conductivity (EC) of solutions used in agricultural operations measuring rainwater pollution levels

The Elcometer 138 Conductivity Meter includes a convenient salinity conversion indicator.

Features:

- Highly precise measurements can be obtained from a single drop
- Automatic range switching gives a wide measurement range of 1µs/cm to 19.9mS/cm
- Out of range and low battery alarms
- Visual indication when ambient temperature is outside the operating range



Technical Specification

Part Number	Description		
T13823925	Elcometer 138 Conductivity Meter		
Units	S/cm, S/m, % Salinity, ppm (Total Dissolved Salts - TDS)		
Measuring Range	Conductivity:	0 mS/cm to 19.9 mS/cm, 0 S/m to 1.99 S/m	
	Salt:	0% to 1.1%	
	TDS:	0 ppm to 9900 ppm	
Resolution & Accuracy	0 µS/cm to 199 µS/cm:	Resolution	Accuracy
	0.20 mS/cm to 1.99 mS/cm:	1 µS/cm	± 5 µS/cm
	2.0 mS/cm to 19.99 mS/cm:	0.01 mS/cm	± 0.05 mS/cm
	20 mS/cm to 199 mS/cm:	0.1 mS/cm	± 0.5 mS/cm
		1 mS/cm	± 5 mS/cm
Operating Temperature	5°C to 40°C (41°F to 104°F)		
Power Supply	2 x CR2032 batteries	Battery Life	approx. 400 hours of continuous use
Dimensions	164 x 29 x 20mm (6.5 x 1.2 x 0.8")	Weight	47g (1.7oz)
Packing List	Elcometer 138, 14ml (0.47fl oz) bottle of standard 1.41mS/cm calibration solution, 14ml (0.47fl oz) bottle of moistening solution, 2 x CR2032 batteries and operating instructions		

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Accessories

E135----C25	Elcometer 135C Bresle Test Patch (Box of 25)	T13823928	Replacement Conductivity Sensor
E135----C100	Elcometer 135C Bresle Test Patch (Box of 100)	T13818517	3 x 5ml (0.17fl oz) Syringes
T13818518	3 x Needles	T13818519	Plastic Beaker 30ml (1fl oz)
T13827352-1	Standard 447 $\mu\text{S}/\text{cm}$ (0.447 mS/cm) Calibration Solution – 4 x 20ml (0.74fl oz) Single Use Pouches		
T13827352-2	Standard 1413 $\mu\text{S}/\text{cm}$ (1.413 mS/cm) Calibration Solution – 4 x 20ml (0.74fl oz) Single Use Pouches		
T13827352-3	Standard 15000 $\mu\text{S}/\text{cm}$ (15 mS/cm) Calibration Solution – 4 x 20ml (0.74fl oz) Single Use Pouches		
T13823926	Standard 1.41 mS/cm (1410 $\mu\text{S}/\text{cm}$) Calibration Solution – 6 x 14ml (0.47fl oz) Bottles		
T13824404	Standard 12.9 mS/cm (12900 $\mu\text{S}/\text{cm}$) Calibration Solution – 6 x 14ml (0.47fl oz) Bottles		
T13827259	Pure Water 250ml (8.5fl oz) Bottle		