

Elcometer 130 Salt Contamination Meter

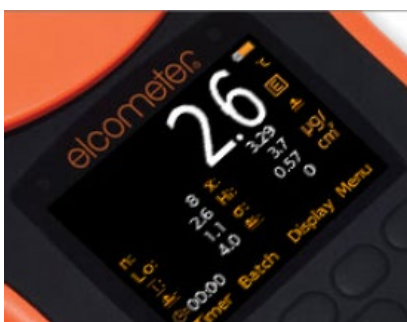
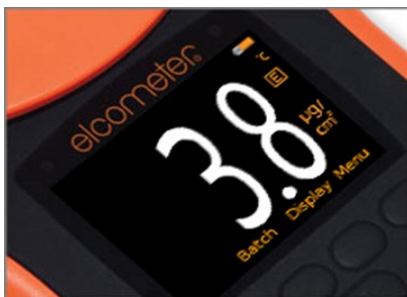
Can be used in accordance with:
SSPC Guide 15



The Elcometer 130 quickly and accurately measures the level of soluble salts on surfaces nearly 5 times faster than Bresle equivalent test methods

Key features of the Elcometer 130 Salt Contamination Meter include:

- Fast reading rate allows multiple tests to be completed efficiently
- Automatic temperature compensation ensures accurate results
- Pressure plate ensures a constant and uniform pressure to paper
- Non-oxidising gold plated contacts ensures lifetime accuracy
- Fully portable hand-held, ergonomic design ideal for use in the field
- Dust and water resistant rugged design equivalent to IP64
- Stores up to 100,000 readings in 1,000 alpha numeric batches
- USB and Bluetooth® data output to ElcoMaster® software



User Friendly

- Large buttons ideal for gloved hands
- Easy to use menus in multiple languages
- High reading limit indicator
- Factory calibrated for immediate use

Accurate

- Conductivity measurement to $\pm 1\%$
- Can be used in accordance with National and International Standards
- Automatic temperature compensation ensures repeatable, accurate results
- Calibration verification tiles
- Trend and batch readings graph formats for instant on-screen analysis

Reliable

- Repeatable and reproducible measurements
- 2 year gauge warranty
- Supplied with fully traceable Test Certificates
- Batch & individual readings are stored with date and time stamp



Tough

- Heavy duty, impact resistant, dust and waterproof design equivalent to IP64
- Wipe clean sealed unit ideal for harsh environments
- Scratch and solvent resistant display

Efficient

- Instant readings allow multiple tests to be completed efficiently
- Alpha numeric batch identification
- Compatible with ElcoMaster® and ElcoMaster® Mobile App
- Calibration offset allows the use of non-pure water up to 2µg/cm²

Powerful

- Measuring range up to 50µg/cm² (3000ppm)
- USB and Bluetooth® data output to iPhone* or Android™ devices
- Stores up to 100,000 readings in 1,000 batches
- Soluble salt and conductivity meter in one gauge

Features

	■ Standard Model S	□ Optional Model T
Repeatable & reproducible measurements	■	■
Easy to use menu structure in 30+ languages	■	■
Tough, impact, waterproof & dust resistant; equivalent to IP64	■	■
Bright colour screen; with permanent back light	■	■
Scratch & solvent resistant display (6cm) TFT	■	■
2 year gauge warranty*	■	■
USB power supply <i>via PC</i>	■	■
Calibration certificate	■	■
Calibration verification mode <i>(with optional certified calibration tiles)</i>	■	■
Ambient light sensor <i>with adjustable auto brightness</i>	■	■
Emergency light mode	■	■
Magnetic & tripod mounting points	■	■
Gauge software updates <i>via ElcoMaster® software</i>	■	■
Data output		
USB to computer	■	■
Bluetooth® <i>to computer, Android™ & iOS* devices</i>		■
ElcoMaster® software & USB cable	□	■
On screen statistics		■
Number of readings (n) Mean (average) (x); Standard deviation (σ)		■
Highest reading (Hi) Lowest reading (Lo) Coefficient of variation (CV)		■
Number of reading above high limit		■
Gauge memory		■
Number of readings		100
Number of batches		1
Measurement units & range	µg/cm ² 0-25	0-50
	ppm	0-3000
	µS/cm	0-6000
	mS/cm	0-6m
	% Salinity	0-0.3
	mg/m ²	0-500
Measurement mode		■
Surface cleanliness	■	■
Conductivity		■
Calibration offset mode	■	■

Automatic temperature compensation	■	■
Individual reading stored with date & time		■
Plastic transit case	■	■
Alpha-numeric batch names; user definable on the gauge		■
Fixed batch size mode with batch linking		■
Delete last reading		■
Limits user definable audible & visual pass/fail warnings		■
Review, copy, clear & delete batches & calibration settings		■
Trend graph last 20 readings		■
Batch review graph		■
Analogue bar graph		■

1 The Elcometer 130 is supplied with a 1 year warranty against manufacturing defects.
 * The warranty can be extended free of charge to 2 years within 60 days of purchase
 2 Visit www.elcometer.com/sdk to find out how to integrate Elcometer's MFi certified products to your App.

Technical Specifications

Model Options			
Model S	Model T	Description	Certificate
E130-S	E130-T	Elcometer 130 Salt Contamination Meter	
E130-SC	E130-TC	Elcometer 130 Certified Salt Contamination Meter	●
		Model S	Model T
Measurement Range		0-25µg/cm ²	0-50µg/cm ² ; 0-500mg/m ² ; 0-6000µS/cm 0-6mS/cm; 0-3000ppm; 0-0.3% Salinity
Resolution		0.1µg/cm ²	0.1µg/cm ² ; 1mg/m ² 1µS/cm; 0.001mS/cm 1ppm; 0.0001% Salinity
Measurement Accuracy	±1% of reading ±0.1µg/cm ²		
Operating Range	5°C - 40°C		
Power Supply	4 x AA dry cell batteries (rechargeable batteries can also be used), or power via USB		
Number of Tests	Approximately 4,000 measurements before battery replacement		
Sample Time	2 minutes		
Sampling Size	110mm diameter circle		
Dimensions	250 x 145 x 50mm		
Weight	780g		

Packing List

Elcometer 130 Salt Contamination Meter
3 x Magnetic Discs
100 x High Purity Test papers
250ml Pure Distilled Water
20 x PVC Storage Bags
Disposable Gloves
Sensor Wipes
3 x 3ml Syringes
2 x Plastic tweezers
4 x AA Batteries
Plastic Transit Case, Shoulder Strap
Test Certificate & Operating Instructions
USB Cable (T) & ElcoMaster® Software (T)



Accessories

Part Number	Description	Certificate
T13023980	Calibration Verification Tiles, Set of 3	●

T13024091	3ml Syringe (x3)
T99922341	Pack of 10 Display Screen Protectors
T13024093	Box of 20 Self Seal Polythene Bags
T99911344	Pure Distilled Water - 250ml Bottle with 3ml syringe
T13027596	Pure Distilled Water - 1000ml Bottle with 3ml syringe
T13024094	Box of 100 High Purity Test Papers
T13024092	Box of 20 Disposable Vinyl Gloves
T13024098	Plastic Tweezers (x2)
T13024087	Box of 72 Sensor Wipes
T13025964	Magnetic Discs (x3)
T99921325	USB Cable



How to use a Salt Contamination Meter



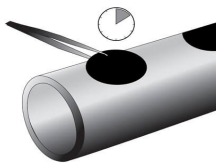
Fill the syringe with 1.6ml of pure distilled water. Note: Non-pure water (up to $2\mu\text{g}/\text{cm}^2$) can be automatically offset with the gauge.



Using tweezers, remove a filter paper from the pack and place it on the cleaned, non labelled side of the magnetic disc supplied.



Disperse the water from the syringe, evenly across the whole of the filter paper and remove any bubbles from under the paper.



Place the magnetic disc, with wetted paper face down on to the area under test, pressing firmly into any contours or irregularities and start the 2 minute timer on the gauge.

Whilst waiting for the sample time to elapse, additional tests can be prepared.

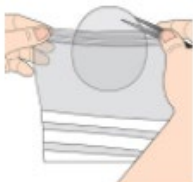


After 2 minutes, carefully remove the filter paper and magnetic disc from the test surface and place on to the measurement electrodes.



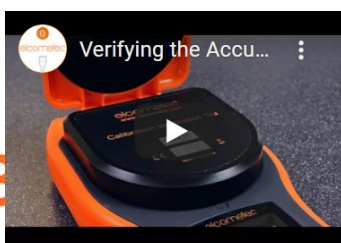
Close the lid, ensuring that the magnetic catch is fully engaged.

The reading will automatically be displayed and stored into memory together with date and time.



Place the filter paper in a resealable bag (supplied), if required for further analysis.

Video



YouTube Video - Verifying the Accuracy of Elcometer 130 Salt Contamination Meters using Elcometer Calibration Tiles
 (Click on the image to the left to view the video)

By using the Elcometer 130's Calibration Verification Tiles, you can quickly verify the accuracy of your Elcometer 130 anytime and anywhere. The Elcometer Calibration Verification Tiles are used to check each gauge's measurement electrodes by accurately simulating known salt concentrations.

Elcometer ElcoMaster® Data Management Software

(see separate Datasheet for more info)

Create instant reports with ElcoMaster®

What you do with the collected data is just as important as taking the readings themselves.



ElcoMaster® is a fast, easy to use software solution for all your data management and quality assurance needs, preparing professional inspection reports at the click of a button.

Data transferred to ElcoMaster® includes:

- Date and time stamped readings
- Statistical values
- Limit values
- Readings above high limit
- Run charts & histograms
- Batch and gauge information
- Calibration information



Whether you are in the field or on the factory floor, using the ElcoMaster® Mobile App users can:

- Store live readings directly on to a mobile device and save them into batches
- View graphs in real-time whilst carrying out the inspection
- Add notes to individual batch reading
- Add photographs of the test surface to each individual batch reading at the click of a button
- Plot individual readings on to a location map, photograph or diagram via the mobile device's internal GPS
- Inspection data can be transferred from mobile to PC for further analysis and reporting
- Generate instant .pdf report for submission (incl IOS)