

elcometer® 130 SSP Soluble Salt Profiler

Conforms to: SSPC Guide 15, Bresle Equivalent ISO 8502-9 Test Method

The Elcometer 130 Soluble Salt Profiler provides fast and accurate measurement of the level and density of soluble salts - over 4 times faster than other Bresle equivalent methods.



The new Elcometer 130 Soluble Salt Profiler allows you to complete a Bresle equivalent test in just over two minutes.

The multi-point conductivity sensors enable the Elcometer 130 SSP to accurately display salt concentration, showing exactly where the contamination lies and generating full colour salt density maps in 2D or 3D.

“Four Bresle equivalent readings in 2½minutes”

Each filter paper is the size of four Bresle patches - the Elcometer 130 Soluble Salt Profiler not only displays the individual reading, but also provides four Bresle equivalent readings in just over two minutes.

(Please request the Elcometer 130 SSP Bresle Patch Equivalence report if you want the whole report)

“The new Elcometer 130 SSP doesn’t just measure the level of soluble salts”

In addition to soluble salt levels (cleanliness) or conductivity, the Elcometer 130 SSP carries out a detailed analysis of the test area - providing an accurate salt density profile map, pinpointing areas of high contamination outside user defined limits.

“Accurate in all environments”

This new, easy to use, Elcometer 130 SSP has automatic temperature compensation ensuring accuracy in all climatic conditions. Impure water can be offset for accurate and repeatable readings.

“Each gauge is designed to last”

Robust, durable & water resistant, the new Elcometer 130 SSP is available with a 2 year manufacturer’s warranty; giving you peace of mind.



BAMR (Pty) Ltd, PO Box 23973, Claremont, 7735, South Africa
 Ph : 27 (0)21 683 2100, Fax : 27 (0)21 674 1485
 Email : sales@bamr.co.za, Web : www.bamr.co.za

“Generate instant reports on your PC, Android™ or iOS mobile devices”

The Elcometer 130 SSP wirelessly transmits readings, statistics and batches via Bluetooth® or via USB straight into an inspection application or into ElcoMaster®, Elcometer’s Mobile App, for instant report generation at your desk or, using your mobile, in the field. What you do with the collected data is just as important as taking the readings themselves.



“Calibration verification - peace of mind”

A Calibration Verification Tile is available for verifying the accuracy of the gauge whilst out in the field and the verification date is recorded for use in reports.

Check the Accessories below for part numbers.



Key features of the Elcometer 130 Soluble Salt Profiler include:

- **Range of measurement modes:**
 - Cleanliness: two measurement options are available when measuring soluble salts – Bresle Method Equivalency or Elcometer 130 Equivalency mode
 - Conductivity: ideal for measuring ionic contaminants, sometimes referred to as total dissolved solids – TDS, within a solution
- **Multi-point conductivity sensor** allows the trend in conductivity to be displayed as a density map
- **Automatic temperature compensation** ensures accurate results
- **Large colour LCD screen** displays readings in $\mu\text{g}/\text{cm}^2$, ppm, $\mu\text{S}/\text{cm}$, mS/cm, % salinity or mg/m^2
- **Stores up to 3,500 sets of readings** in 1,000 alpha numeric batches
- **Non-oxidising gold plated contacts** ensure lifetime performance
- **Transfer data** via USB or Bluetooth® to ElcoMaster® for instant report generation

Packing List

- Elcometer 130 Soluble Salt Profiler
- 3 x magnetic discs
- 100 x high purity test papers
- 250ml (8.5fl oz) pure water
- 20 x PVC storage bags
- disposable gloves
- sensor wipes,
- 3 x 3.0ml (0.1fl oz) syringes
- 2 x plastic tweezers,
- 4 x AA batteries,
- shoulder strap,
- plastic transit case,
- test certificate and operating instructions,
- USB cable, ElcoMaster® software



Display Modes



Large Single Reading

The reading value is displayed for the whole sample.



Four Bresle Patch Equivalent Readings

The measurement area is split into four Bresle Patch size quadrants and four Bresle Patch or Elcometer 130 equivalent readings are displayed simultaneously.



Pass/Fail to User Defined Limits

Provides a visual indication of salt contamination. Areas where soluble salts levels are above the limit set are shaded red, areas below the limit are white. The measurement bar to the left of the pass/fail map displays the limit (above the bar) and the percentage test area above the defined limit (below the bar). The bar is also a visual indication of the pass/fail percentage. The highest (Hi), lowest (Lo) and average (X) reading for the current measurement are displayed to the right.



2D Salt Density Map with High/Low Readings

Levels of soluble salts are illustrated using a green and red contour system; green for very low salt concentration or uncontaminated areas; yellow for areas with mid salt concentration; and red for areas with levels of salt contamination exceeding the defined map scale range.



3D Salt Density Profile & Peak Salt Concentration (Hi)

Provides a visual indication of the density of salt contamination over the test area.



How to use the Elcometer 130 Soluble Salt Profiler



1. Wearing clean disposable gloves (supplied), fill a syringe with precisely 1.6ml of deionised water.



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



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



4. 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.



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



6. As each filter paper remains on the surface for two minutes, multiple tests can be undertaken at the same time, reducing inspection times further.



7. Close the lid, ensuring that the magnetic catch is fully engaged, the gauge will begin measuring.



8. The reading will be displayed on screen in the chosen display mode.



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

Technical Specifications

Model	Description	Certificate
E130-SP	Elcometer 130 Soluble Salt Profiler	•
E130-SPC	Elcometer 130 Certified Soluble Salt Profiler	
Operating Range	5°C - 50°C	
Power Supply	4 x AA batteries or via USB (rechargeable batteries can also be used)	
Battery Life	Alkaline: Approximately 30 hours Lithium: Approximately 45 hours	
Sample Time	2 minutes	
Sampling Size	110mm circle	
Dimensions	250 x 145 x 50mm	
Weight	780g	



BAMR (Pty) Ltd, PO Box 23973, Claremont, 7735, South Africa
Ph : 27 (0)21 683 2100, Fax : 27 (0)21 674 1485
Email : sales@bamr.co.za, Web : www.bamr.co.za

Features

	Model SSP
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; 2.4" (6cm) TFT	■
2 year gauge warranty*	■
USB power supply; via PC	■
Calibration certificate	■
Calibration verification mode (with optional certified calibration tile)	■
Ambient light sensor; with adjustable auto brightness	■
Emergency light mode	■
Magnetic & tripod mounting points	■
Data output, USB to PC & Bluetooth to PC, Android™ & iOS® devices	■
On screen statistics	
Number of readings (n);	■
Mean/ Average, (x);	■
Standard deviation (σ);	■
Highest reading/ Peak Salt Concentration (Hi);	■
Lowest reading (Lo);	■
Coefficient of variation (CV%);	■
Number of readings above high limit	■
Gauge memory	
Number of individual reading sets; including salt density, pass/fail map & distribution graph	3,500
Number of batches	1,000
Measurement units & range	
Surface Cleanliness - Elcometer 130 Mode	0-50 $\mu\text{g}/\text{cm}^2$ (0-500mg/m ²)
Surface Cleanliness - Bresle Equivalent Method Mode	0-15 $\mu\text{g}/\text{cm}^2$ (0-150mg/m ²)
Conductivity	0-6000 $\mu\text{S}/\text{cm}$ (0-6mS/cm) 0-3000ppm (0-0.3% Salinity)
Resolution	
Surface Cleanliness	0.1 $\mu\text{g}/\text{cm}^2$ (1mg/m ²)
Conductivity	1 $\mu\text{S}/\text{cm}$ (0.001mS/cm) 1ppm (0.0001% Salinity)
Gauge Accuracy	±1% of reading
Measurement mode	
Surface Cleanliness	■
Conductivity	■
Calibration offset mode	■
Automatic temperature compensation	■
ElcoMaster® software & USB cable	■
Individual reading and profile map stored with time and date	■
Plastic transit case	■
Alpha-numeric batch names; user definable on the gauge	■
Fixed batch size mode; with batch linking	■
Delete last reading	■
Limits; (gauge & batch specific)	■
Review, copy, clear & delete batches & calibration settings	■
Trend graph; last 20 readings	■
Batch review graph	■
Analogue bar graph	■

* The Elcometer 130 SSP is supplied with a one year warranty against manufacturing defects. Gauge warranty can be extended to two years here.

• Calibration certificate supplied as standard



BAMR (Pty) Ltd, PO Box 23973, Claremont, 7735, South Africa
Ph : 27 (0)21 683 2100, Fax : 27 (0)21 674 1485
Email : sales@bamr.co.za, Web : www.bamr.co.za

Accessories



T13027115 Calibration Verification Tile



T13025964 Magnetic Discs (x3)



T13024091 3.0ml Syringe (x3)



T13024093 Self Seal Polythene Bags (x20)



T99911344 Pure Water - 250ml Bottle with 3ml syringe



T13024094 High Purity Test Papers (x100)



T13024092 Disposable Vinyl Gloves (x20)



T13024098 Plastic Tweezers (x2)



T13024087 Box of 72 Sensor Wipes



T99920130 USB Bluetooth® Adaptor V2.1+

