

Elcometer 148 pH Tester

In many industries, pH measurement is critical to the correct performance of processes. pH is the measure of acidity of a liquid.

The pH scale ranges from 0 to 14pH - where 0pH is acidic and 14pH is alkaline. pH is temperature dependent thus the temperature of the sample under test will affect the pH value recorded.

This simple, easy to use instrument measures both pH and temperature using a single sensor.

The Elcometer 148 sensor has automatic temperature compensation, ensuring like-for-like measurements can be taken for meaningful comparison of the results.

- Simultaneously displays pH and temperature
- Measurement hold / freeze function
- Record maximum and minimum readings over a series of tests
- °C / °F user switchable
- Waterproof to IP57 and floats on water
- Auto power off

The condition of the sensor is automatically monitored after each successive calibration and sensors can be easily replaced by the user as and when required.



STANDARDS:
ASTM E 70

Technical Specification

Part Number	Description
H148-----1	Elcometer 148 pH Tester
	pH Temperature
Range	0 to 14pH 0 to 89°C (32 to 192°F)
Resolution	0.01pH 0.1°C (0.1°F)
Accuracy	±0.03pH ±0.5°C (±1°F)
Battery	4 x AAA batteries
Calibration	3 point at 7pH, 4pH and 10.01pH
Dimensions	195 x 40 x 36mm (7.7 x 1.6 x 1.42") Weight 150g (5.3oz)
Packing List	Elcometer 148 pH Tester, pH/Temperature sensor, 4 x AAA batteries, wrist strap, 4pH calibration sachet, 7pH calibration sachet and operating instructions.

Accessories

T14821766	pH/Temperature Sensor
T14821768-1	4pH Buffer Solution for Calibration: Capsules, Pack of 10
T14821768-2	7pH Buffer Solution for Calibration: Capsules, Pack of 10
T14821768-3	9pH Buffer Solution for Calibration: Capsules, Pack of 10
T14821767-1	4.01pH Buffer Solution for Calibration: 100ml (3.38 fl oz) Bottle
T14821767-2	7pH Buffer Solution for Calibration: 100ml (3.38 fl oz) Bottle
T14821767-3	10.01pH Buffer Solution for Calibration: 100ml (3.38 fl oz) Bottle

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Elcometer 138 Abrasive Soluble Salt Test Kit – ASTM D4940

Abrasives used for blast cleaning surfaces can be contaminated with soluble salts due to the source or the re-use of the blasting media. This contamination can be transferred to the blast cleaned surface and result in accelerated corrosion conditions and also cause premature coating failure, if this contamination is not removed prior to applying the coating.

Testing abrasives on site for soluble salt contamination can be carried out quickly and easily using the Elcometer 138 Abrasive Soluble Salt Test Kit, according to the ASTM D4940 method. A measured volume of the abrasive is mixed with the same volume of water and agitated to allow any soluble salts to dissolve in the water. The resulting slurry is allowed to settle and the filtered water can then be tested using a conductivity meter. The Elcometer 138 Abrasive Soluble Salt Test Kit provides all that is needed to carry out the test in the field or in the laboratory.



STANDARDS:

ASTM D4940

Technical Specification

Part Number	Description
E138-A-CM	Elcometer 138 Abrasive Soluble Salt Test Kit with Elcometer 138 Conductivity Meter
Measurement Range	0 - 19.99mS/cm (see Elcometer 138 Conductivity Meter for full specification)
Accuracy	±2% of full scale (see Elcometer 138 Conductivity Meter for full specification)
Dimensions	456 x 384 x 127mm (18 x 15.1 x 5")
Weight	2.2kg (4lb 14oz)
Packing List	Elcometer 138 Conductivity Meter, 1000ml (33.8 fl oz) bottle of pure distilled water, 100ml & 600ml (3.4 & 20.3 fl oz) glass beakers, 500ml (16.9fl oz) plastic measuring beaker, funnel, stirring rod, box of 100 filter papers, 1 x 14ml (0.47fl oz) standard 1413 µS/cm (1.413 mS/cm) calibration solution, 1 x 14ml (0.47fl oz) conditioning solution, 2 x CR2032 batteries, transit case and user guide

Accessories

E138-CM	Elcometer 138 Conductivity Meter
T13830628	Replacement Sensor for Conductivity Meter
T13830629-2	Standard 1413µS/cm Calibration Solution; 250ml (8.45fl oz) Bottle
T13827494	Pure Distilled Water 1000ml (33.8fl oz) Bottle
T13827495	Glass Beaker 100ml (3.4fl oz)
T13827496	Glass Beaker 600ml (20.3fl oz)
T13827498	Plastic Measuring Beaker 500ml (16.9fl oz)
T13827497	Funnel
T13827499	Stirring Rod
T13827500	Box of 100 Filter Papers

Elcometer 134W Chloride Ion Test Kit for Water

The Elcometer 134W is used to monitor recycled water (after it has been applied) to establish effectiveness of salt removal, this test is ideal for testing the salt contamination in wash water and blast water.

If the chloride levels in the wash water are too high, this will promote premature corrosion, shortening the life of both steel and concrete structures.

This test can also be used when mixing concrete.

**Technical Specification**

Part Number	Description		
E134----3	Elcometer 134W Chloride Ion Test Kit for Liquids (5 Tests per Kit)		
Measuring Range	10 - 2000µg/cm ² (10 - 2000ppm)	Resolution	10µg/cm ² (10ppm)
Sample Time	1.5 - 4 minutes (approx)		
Storage Conditions	Not exceeding 25°C (77°F)		
Dimensions	185 x 125 x 110mm (7 x 5 x 4.5")	Weight	208g (7oz)
Packing List	5 x test kits each containing: sample container bottle with dropper in lid, titration tube, titration tube snapper and operating instructions		

Elcometer 134A Chloride Ion Test Kit for Abrasives

Chlorides deposited on a surface by contaminated abrasives during blasting can cause a coating to fail prematurely.

Contamination can build up, particularly if the blast media is recycled several times.

Using the Elcometer 134A Chloride Ion Test in the field will accurately identify contamination and prevent costly surface-related failures.



Technical Specification

Part Number	Description		
E134----2	Elcometer 134A Chloride Ion Test Kit for Abrasives (4 Tests per Kit)		
Measuring Range	1 - 60µg/cm² (1 - 60ppm)	Resolution	1µg/cm² (1ppm)
Sample Time	1.5 minutes (approx)		
Storage Conditions	Not exceeding 25°C (77°F)		
Dimensions	185 x 125 x 110mm (7 x 5 x 4.5")	Weight	367g (13oz)
Packing List	4 x test kits, containing: abrasive sample container, mixing container with a pre-measured quantity of solution, titration tube, titration tube snapper, strap and operating instructions		

Elcometer 103 Blast Nozzle Gauge

The Elcometer 103 Blast Nozzle Gauge measures the orifice size of an abrasive blasting nozzle.

This gauge is used to determine the nozzle orifice wear which leads to low nozzle pressure and decreased efficiency in the performance of the nozzle's venturi.

Nozzle orifice wear results in decreased productivity and increased abrasive media consumption.

To ensure your nozzle provides continuous high production, as a general rule, replace your nozzle when the orifice wears by 1 nozzle size.



Using a Blast Nozzle Gauge



Technical Specification

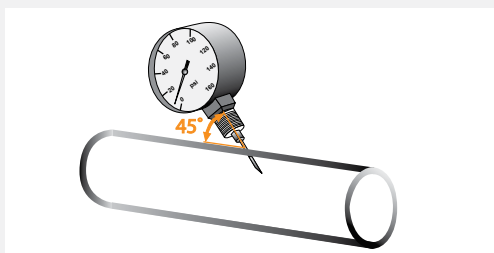
Part Number	Description		
E103-A	Elcometer 103 Blast Nozzle Gauge		
T10329146	Black Wax Pencil (Pack of 12)		
T10323558	Red Wax Pencil (Pack of 12)		
Measuring Range	1/4 - 5/8" (81-548 CFM)		
Dimensions	200 x 19mm (7.87 x 0.75")	Weight	150g (5.29oz)
Packing List	Elcometer 103 Blast Nozzle Gauge, wax/grease pencil (inside gauge), protective pouch and operating instructions.		

Elcometer 102 Needle Pressure Gauge

The Elcometer 102 Needle Pressure Gauge is designed to measure air pressure in blast and air hoses.

Pressure drop is responsible for decreased production rates, increased abrasive consumption and reduced anchor profile in abrasive blasting systems.

How to use a Needle Pressure Gauge



Technical Specification

Part Number	Description
E102-A	Elcometer 102 Needle Pressure Gauge
T10229425	Replacement Needle (Pack of 2)
Measuring Range	0 - 300psi (0 - 20bar)
Pressure Limitations	Steady: 3/4 x full scale value Fluctuating: 2/3 x full scale value Short Time: Full scale value
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Dimensions	133 x 58 x 28.5mm (5.24 x 2.28 x 1.12")
Weight	110g (3.88oz)
Packing List	Elcometer 102 Needle Pressure Gauge, pressure gauge guard, spare hypodermic needle, protective pouch and operating instructions

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