



CON550 Benchtop Conductivity Meter



C € **ISO 9001: 2008**

1 Brief Introduction

Thank you for purchasing Oakton Instruments CON 550 Benchtop Conductivity Meter.

This instrument is an outstanding combination of advanced electronics design and sensor technology. It's the most economical choice of a reliable lab benchtop conductivity meter.

Please read this manual carefully to properly use and maintain the meter. Oakton Instruments reserves the right to update the contents of this manual without giving prior notices.

1.1 Main Features

- The meter has a built-in microprocessor chip, which enables intelligent functions such as automatic calibration, automatic temperature compensation, data storage, parameter setup, max/min reading display, etc.
- The advanced automatic calibration mode has calibration guide and self-diagnosis functions, automatically recognizing standard calibration solutions.
- The advanced digital processing technology intelligently improves the meter's response time and measuring accuracy with stable reading display mode available.
- The kit comes with a combination conductivity electrode with temperature sensor, measuring conductivity and temperature simultaneously, and allows for automatic temperature compensation.
- IP54 dustproof and spillproof. Connectors are protected by silicone seal caps, effectively ensuring the reliability and service life of the meter under harsh environment.
- Detachable electrode holder and 3 bottles of conductivity calibration solutions come with the kit for convenient use.

2 Technical Specifications

Conductivity	Range	Conductivity: 0-200.0 mS/cm, divided into 4 ranges: (0-199.99) μ S/cm, (200-1999) μ S/cm, (2.00-19.99) mS/cm, (20.0-199.9) mS/cm TDS: (0-100) g/L, divided into 4 ranges: (0-99.9) mg/L, (100-999) mg/L, (1.00-9.99) g/L, (10.0-100.0) g/L
	Resolution	Conductivity: 0.1/1 μ S/cm; 0.01/0.1 mS/cm TDS: 0.1/1 mg/L, 0.01/0.1 g/L
	Accuracy	$\pm 1.0\%$ F.S ± 1 digit
	Temperature Compensation	0 to 50 °C (Auto or Manual)
	Electrode Constant	0.1/1/10 cm^{-1}
	Reference Temperature	25 °C
	Temperature Compensation Coefficient	0.00-9.99%/ °C, default value: 2.00%/ °C

	Calibration	1-4-point Auto Calibration
Temp.	Range	0 to 100°C; 32 to 212°F
	Resolution	0.1°C; 0.1/1°F
	Accuracy	±0.5°C ±1 digit
Others	Data Storage	50 groups
	Storage Content	Numberings, Measurement, Unit, Temperature, Temperature Compensation Status
	Power	DC9V/300mA
	IP Ratings	IP54 dustproof and spillproof
	Size and Dimension	(240*235*103) mm/1kg

Complete Kit

	Content	Quantity
5.1	35419-35, CON 550 Benchtop Conductivity Meter	1
5.2	35419-32, Plastic Combination Conductivity Electrode	1
5.3	Conductivity standard calibration solutions: (84 μ S/1413 μ S /12.88mS, 50ml for each)	1 of each
5.4	9V Power Adapter	1
5.5	Electrode Holder	1 set
5.6	Instruction Manual	1



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.