Benchtop Conductivity Meter

Model : YR01828
Benchtop Conductivity Meter
Manufacturer : Kalstein

Price : $ 1,725.00

Description :

The conductivity meter reports conductance as the inverse of a resistivity measurement. Resistivity is measured in ohms/cm, so conductivity is measured in mhos/cm. A mho, a former unit of electrical conductance, is the reciprocal of an ohm and is defined as the Seimens (S). A conductivity meter can measure the amount of totally dissolved solids (TDS) in a solution, in units of parts per million (ppm) or milligrams per liter. The standard correlation between the TDS measurement of a solution and the conductivity measurement is: TDS (ppm) x 2 = Conductivity (?S).

Conductivity meters are used heavily in agriculture to measure the salinity levels of surface water and of soil samples. Shown here is a conductivity meter being used to measure the quality of water in a wastewater treatment facility. In addition to conductivity, this meter can be used to measure pH and dissolved oxygen.

YR010828 Benchtop Conductivity/TDS/Salinity Meter

High-performance benchtop salinity meter with conductivity, TDS and resistivity measurement modes, setup menu contains 19 optional parameters. Accuracy: 1% F.S.

Feature:

• High-performance benchtop salinity meter is equipped with a 7-inch TFT display.

• 1 to 5 points push-button calibration automatically recognizes the calibration solutions.

• Selectable cell constant is matched the connected conductivity electrode and recalled the

calibration data.

• Selectable linear temperature compensation coefficient (%/°C), pure water compensation

coefficient, reference temperature and TDS conversion factor.

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• Automatic Temperature Compensation corrects the conductivity measurement to selected

reference temperature.

Benchtop Salinity Meter:

• Limit alarm alerts when reading exceeds range.

• Calibration Due Alarm prompts user to calibrate the meter regularly.

• Calibration report provides the details of the calibration standard and cell constant.

• Stability indicator shows when a measurement is recognized as stable.

• Auto-Read feature senses and locks the measurement endpoint.

• Interval Readings automatically send the measured data to the computer or printer.

• Password protection prevents the unauthorized calibration and settings.

• Expanded memory stores and recalls up to 1000 data sets.

• Stored readings can be transferred into the computer by USB communication interface.

• Reset feature automatically resumes all settings back to factory default options.

Parameters by Model

Benchtop Conductivity Meter

Model	YR01828
Conductivity Range	0.01~20.00, 200.0, 2000µS/cm, 20.00, 200.0mS/cm
Accuracy	±0.5% F.S
Resolution	0.001/0.01/0.1/1
Calibration Points	1 to 5 points
Calibration Solutions	10µS/cm, 84µS/cm,1413µS/cm,12.88mS/cm,111.8mS/cm
TDS Range	0.00mg/L~100.0g/L (Max. 200g/L)
Accuracy	±1% F.S
TDS Factor	0.01~1.00 (Default 0.5)
Salinity Range	0.00~80.00ppt, 0.00~42.00psu, 0.00~8.00%
Accuracy	±1% F.S
Measurement Modes	Practical salinity (psu), Natural seawater (ppt) or %
Resistivity Range	0.00~30.00MΩ
Accuracy	±1% F.S
Resolution	0.01/0.1/1
Temperature Range	0~105℃, 32~221℉
Accuracy	±0.5℃, ±0.9℉
Resolution	0.1℃
Calibration Points	1 point
Measurement Units	℃ or ℉
Temperature Compensation	0~100℃, 32~212℉, Manual or Automatic
Temperature Coefficient	Linear, Non-linear and Pure water compensation
Reference Temperature	20℃ or 25℃
Cell Constant	2-pole electrodes (K=0.1, 1, 10) or 4-pole electrode
Stability Criteria	Standard or High-accuracy
Interval Readings	10/30/60 seconds, 10/30 minutes or Off
Calibration Due Alarm	1 to 31 days
Memory	Stores up to 1000 data sets
Output	USB communication interface
Connector	6-pin mini plug
Display	7 inch TFT LCD
Power Requirements	DC12V, using AC adapter, 220VAC/50Hz
Dimensions	240(L)×220(W)×80(H)mm
Weight	1.7kg