



Portable Conductivity/Resistivity/TDS/Salinity Meter

CDH-287-KIT



- ✓ 6 Conductivity Ranges
- ✓ 2 Resistivity Ranges
- ✓ 5 TDS Ranges
- ✓ Practical Salinity in the Range of 2 to 42.0, in Accordance with UNESCO Data
- ✓ Programmable Temperature Coefficient
- ✓ Microprocessor-Based
- ✓ Easy to Operate
- ✓ Ideal for Most Water Applications

The CDH-287 is a portable, multi-ranging conductivity meter with unsurpassed accuracy and reliability in the field. It also measures resistivity, total dissolved solids and practical salinity, making the CDH-287 the most versatile meter on the market. It comes with a glass, dip-style conductivity probe with an integral temperature sensor and cell constant of 1.0. This microprocessor-based conductivity meter features auto-ranging, programmable temperature coefficient and error diagnostics. Simply pressing the keypad switches from conductivity to TDS, resistivity or salinity units. A concentration mode allows operators to choose their own concentration units and create a specific calibration curve, by measuring up to four concentration standards and inputting the values.

To increase range accuracy, cells are also available with constants of K=0.1 and K=10. Dip cells and flow cells are available in both glass and epoxy body styles.

Specifications

Conductivity

Ranges:

0.00 to 19.99 $\mu\text{S}/\text{cm}$ or 1.999 mS/cm
 0.00 to 199.9 $\mu\text{S}/\text{cm}$ or 19.99 mS/cm
 0000 to 1999 $\mu\text{S}/\text{cm}$ or 199.9 mS/cm
 0.00 to 19.99 mS/cm or 1999 mS/m
 00.0 to 199.9 mS/cm or 19.99 mS/m
 000 to 1999 mS/cm or 199.9 mS/m

Accuracy: $\pm 0.3\%$ rdg

Temperature Compensation:

Automatic, 0 to 50°C (32 to 212°F)

Total Dissolved Solids

Ranges:

0 to 19.99 mg/L , 0 to 199.9 mg/L
 0 to 1999 mg/L , 0 to 1.999 g/L
 0 to 19.99 g/L , 0 to 132.0 g/L

Accuracy: $\pm 0.3\%$ rdg

Resistivity

Ranges:

0 to 1.999 $\text{M}\Omega/\text{cm}$ or 0.019 $\text{M}\Omega/\text{m}$
 0 to 19.99 $\text{M}\Omega/\text{cm}$ or 0.199 $\text{M}\Omega/\text{m}$

Accuracy: $\pm 0.3\%$ of reading

Salinity

Range: 2.0 to 42.0% salinity; automatic conversion from conductivity, using temperature relationship for seawater, in accordance with UNESCO, IASPO data

Accuracy: $\pm 0.3\%$ rdg

Temperature Compensation: Automatic, -2.0 to 35°C (28.4 to 95°F)

Concentration

Range: 0 to 9999, automatic ranging, choice of units, background offset function

Calibration: 4 point straight line interpolation

Temperature

Range: -30.0 to 130.0°C
 (-22.0 to 266.0°F)

Accuracy: $\pm 0.3^\circ\text{C}$ (0.5°F)



CDH-287 shown with the CDE-5001-GDI glass dip probe K=1.0 with ATC sensor.

Shown smaller than actual size.

General Specifications

Reference Temperature: 25°C (77°F), selectable to 20°C (68°F)

Temperature Coefficient: Preset to 2%/°C; programmable from 0 to 5%/°C

Measurement Frequency: 3000 Hz

Recorder Output: ± 200.0 mV

RS232

Display: 12.7 mm (0.5") LCD

Dimensions: 100 L x 180 W x 44 mm D (3.9 x 7.1 x 1.7")

Cable: 1.2 m (3.9')

Weight: 410 g (0.9 lb)

Power: 9V battery (included)



Shown smaller than actual size.

CDH-287-KIT is supplied with meter, glass dip-style conductivity probe with integral temperature sensor and cell constant of 1.0, sample bottle, calibration solution, rugged carrying case and operator's manual.

To Order

Model No.	Description
CDH-287-KIT	Conductivity/resistivity/TDS/salinity meter, glass dip-style conductivity probe with integral temperature sensor, K = 1.0, carrying case, sample bottle, 9V battery, calibration solution
CDE-5001-GDI	Replacement conductivity probe, glass dip-style, K=1.0 with ATC, platinum plates, 12 x 130 mm (0.47 x 5.1")
CDE-5002-PD1	Polymer dip-style probe, K = 1.0 with ATC, platinum plates, 12 x 130 mm (0.47 x 5.1")
CDE-5004-ED10	Epoxy dip-style probe, K = 10 with ATC, carbon plates, 26 x 353 mm (1.0 x 13.9")
CDE-5005-GF1	Glass flow cell, K = 1.0 with ATC, platinum plates, 13 x 166 mm (0.5 x 6.5") overall length, 5 mm (0.2") tubing connections, 33 mm (1.3") cell head, 4 mL minimum volume
CDE-5008-EF10	Epoxy flow cell, K = 10 with ATC, carbon plates, 26 x 203 mm (1.0 x 8.0") with 10.5 mm (0.4") tubing connections, 353 mm (13.9") overall length, 13 mL volume
CDE-5010-ED1	Epoxy dip-style probe, K = 1 with ATC, carbon plates, 26 x 250 mm (1.0 x 9.8")
CDE-5011-ED01	Epoxy dip-style probe, K = 0.1 with ATC, carbon plates, 26 x 216 mm (1.0 x 8.5")
CDE-5012-EF1	Epoxy flow cell, K = 1.0 with ATC, carbon plates, 26 x 100 mm (1.0 x 3.9") with 10.5 mm (0.4") tubing connections, 250 mm (9.8") overall length, 26 mL volume
CDE-5013-EF01	Epoxy flow cell, K = 0.1 with ATC, carbon plates, 26 x 66 mm (1.0 x 2.6") with 10.5 mm (0.4") tubing connections, 216 mm (8.5") overall length, 12 mL volume
CDE-5014-GD01	Glass dip-style probe, K = 0.1 with ATC, platinum plates, 20 x 130 mm (0.8 x 5.1")
CDE-5019-ED1	Epoxy dip-style probe, K = 1.0 with ATC, carbon plates, 12 x 110 mm (0.5 x 4.3")
MN1604	3 Replacement 9V battery

CDH-287-KIT is supplied with meter, glass dip-style conductivity probe with integral temperature sensor and cell constant of 1.0, sample bottle, 9V battery, calibration solution, rugged carrying case and operator's manual.

Ordering Examples: CDH-287-KIT, meter and accessories, plus CDE-5008-EF10, epoxy flow cell.

CDH-287-KIT, meter and accessories, plus CDE-5011-ED01, 0.1 cell constant probe.

Cell Constant	Measuring Range	Typical Applications
0.1	>100 μ S (platinum) >200 μ S (carbon)	Pure demineralized, distilled or boiler-fed water
1.0	100 μ S to 100 mS	Surface or wastewater-diluted salt solutions, fertilizers, electroplating rinses
10	Over 100 mS	Concentrated salt solutions, sea water

Note: Carbon (Graphite) probes are easier to clean and are recommended when suspended solids are present.