

## **CONDUCTIVITY INSTRUMENTS**

## Portable Conductivity/Resistivity/TDS/Salinity Meter

**1 YEAR** 

ECTRONICS



- ✓ 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 microprocessorbased conductivity meter features autoranging, 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 µS/cm or 1.999 mS/cm 0.00 to 199.9 µS/cm or 19.99 mS/cm 0000 to 1999 µS/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: ±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: ±0.3% rdg



### Ranges:

0 to 1.999 MΩ/cm or 0.019 MΩ/m 0 to 19.99 MΩ/cm or 0.199 MΩ/m Accuracy: ±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: ±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: ±0.3°C (0.5°F)

### **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)

U.S.A. and Canada

**Our Conductivity Instruments product line continues** to expand, visit omega.com for new details!

1-800-82-66 **1-800-TC-0M** For Sales & Service

E-15

# **Conductivity Instruments**



Shown smaller than actual size.



	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 μS (platinum) >200 μS (carbon)	Pure demineralized, distilled or boiler-fed water
1.0	100 μS 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.



To download information and to order Conductivity Instrument products online, visit omega.com