



# **BENCHTOP pH AND CONDUCTIVITY METERS**



**CDB-430**

**\$1595**

- ✓ **Precise Readings of pH and Conductivity**
- ✓ **Automatic Temperature Compensation**
- ✓ **Analog and RS-232 Outputs**
- ✓ **Membrane Keypads**
- ✓ **No Interference Between pH and Conductivity**

The CDB-430 measures both conductivity and pH. The meter benefits from an LCD graphics display that permits conductivity, pH and temperature to be displayed simultaneously.

The CDB-430 utilizes separate conductivity and pH sensors which may be used together or

independently. All readings are compensated automatically for the appropriate temperature coefficient. A separate temperature input enables the use of alternative conductivity and pH electrodes while maintaining accurate compensation.

**Conductivity and TDS Ranges  
for the  
CDB-430**  
*\* K = 10 cell only*

Conductivity	TDS
*0 - 19.99 S	0 - 1999 g/l
*0 - 1.999 S	0 - 199.9 g/l
0 - 199.9 mS	0 - 19.99 g/l
0 - 19.99 mS	0 - 1.999 mg/l
0 - 1.999 mS	0 - 199.9 mg/l
0 - 199.9 μS	0 - 19.99 mg/l
0 - 19.99 μS	
0 - 1.999 μS	

**SPECIFICATIONS**

	Conductivity:	pH	Temperature	Salinity
<b>Ranges:</b>	0 to 1.999 S 0 to 19.99 S with x 10 cell 0 to 1999 g/l 0 to 20 Mohms	-2 to 19.999 pH -1999.9 to 1999.9 MV	-10 to 105°C 14 to 221°F	0 to 99.9
<b>Resolution:</b>	0.001μs to 0.001S 0.001mg/l to 1g/l 0.01Mohms	0.1/0.01/0.001 pH 1 mV/ 0.1 mV	0.1°C/°F	0.1°C
<b>Temp Inputs:</b>	0	0	2	0
<b>Accuracy:</b>	±0.5% ±2 digits ±2% ±2 digits on Input Impedence: >1013 Ohms	±0.003 pH ±0.2 mV ATC Range: 0-100°C (32 to 212°F)	0.1°C/°F ±0.5°C (1°F)	0 to 35 (32 to 95°F) ±1 35 to 99.9 (95 to 212°F) ±3

**Outputs:**

Bi-Directional RS-232C  
Analog output  
Karl Fisher sockets  
Hi/Lo Alarm Outputs open collector 0.5 A 50 Vdc Max  
Electrode platinizing socket applying 10 Vac 0.05 Hz

**Stirrer Speed:** 0 to 100%

**Alarm Points:**

0-19.99 s, 0-1999 g/l,  
-2 to 19.999 pH, 1999.9 mV

**GPL:** Calibration reminder with an interval of 1 to 999 hours from last calibration  
Timed Printout with an interval from 1 second to 1 day  
End point suppress time from 0 second to 1 hour

**Display:** LCD graphics

**Power:** Power supply 9 Vac

**Size:**

275 L x 240 W x 150 D mm  
(10.8 x 9.4 x 5.9")

**Weight:** 4.5 kg (10 lb)

**To Order: (Specify Model Number)**

Model No.	Price	Description
<b>CDB-430</b>	<b>\$1595</b>	Benchtop pH and conductivity meter with glass conductivity cell, in-built ATC (K=1), general purpose glass pH electrode, Swing arm electrode holder, pH 4 and 7 buffer capsules and power supply

*Ordering Example: CDB-430, benchtop pH and conductivity meter with glass conductivity cell, in-built ATC (K=1), general purpose glass electrode (available separately as PHE-430), swing arm electrode holder, pH 4 and 7 buffer capsules and power supply, \$1595*

**Accessories**

**To Order: (Specify Model Number)**

Model No.	Price	Description
<b>PHAT-320</b>	<b>\$86</b>	Temperature probe
<b>PHE-430</b>	<b>70</b>	General purpose glass pH electrode
<b>PHE-430-D</b>	<b>80</b>	Double junction glass pH electrode
<b>PHE-4202</b>	<b>62</b>	Double junction pH probe
<b>CDE-430-1</b>	<b>156</b>	Conductivity glass cell (K=1) with in-built temperature probe
<b>CDE-430-01</b>	<b>165</b>	Conductivity glass cell (K=0.1) with in-built temperature probe
<b>CDE-430-1-FT</b>	<b>165</b>	Conductivity cell (K=1) flow thru, with in-built temperature probe
<b>CDE-430-1-EP</b>	<b>201</b>	Conductivity cell (K=1) epoxy, with in-built temperature probe
<b>CDE-430-01-EP</b>	<b>218</b>	Conductivity cell (K=0.1) epoxy with in-built temperature probe
<b>CDE-430-10-EP</b>	<b>218</b>	Conductivity cell (K=10) epoxy with in-built temperature probe

*Ordering Example: CDE-430-1, conductivity cell K=1 with in-built temperature probe, \$156*

# omega.co.uk<sup>®</sup>

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

[www.omega.co.uk](http://www.omega.co.uk)



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA

Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)

1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)

Deckenpfronn, Germany

0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)

Manchester, England

0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)

088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)

Karviná, Czech Republic

596-311-899

#### BENELUX

[www.omega.nl](http://www.omega.nl)

0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters