

BENCHTOP CONDUCTIVITY METERS

2 YEAR WARRANTY
Electronics Only



\$833
CDB-400 SERIES

CDB-410



CDB-420



- ✓ Variety of Conductivity Sensors
- ✓ Membrane Keypads
- ✓ 1 mV Per Digit Analog and RS-232C Outputs
- ✓ Includes Swing Arm Electrode Holder
- ✓ Alarms and Calibration Reminder

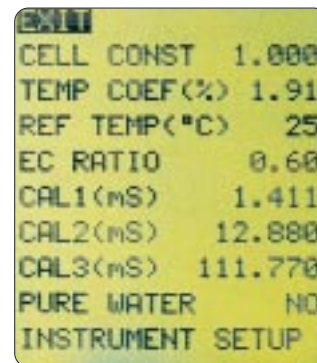
The CDB-410 conductivity meter is designed for routine analytical laboratory situations where measurements must be made economically and quickly but without compromising on quality.

The LCD display enables the simultaneous presentation of conductivity and temperature. The meter also displays prompts, mode indication and error messages. Temperature is measured via a precision thermistor mounted in the conductivity sensor. Temperature coefficient values between 0 and 4%/°C can be entered.

The alternative cells available for use with the CDB-400 series allow the specific conductivity range to be extended by a factor of 10, *i.e.*, the reading can be multiplied or divided by 10 depending on the cell constant.



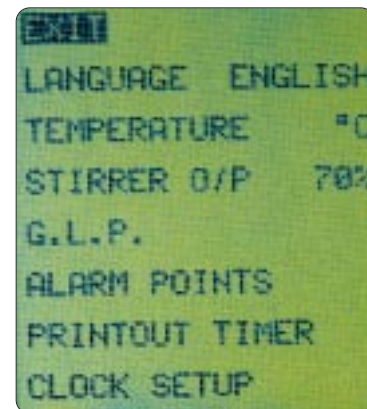
Standard Display



Set-up Menu

The CDB-420 is a research-grade conductivity meter offering a host of features in addition to the features available with the CDB-410. The CDB-420's LCD graphic display enables unambiguous readout of the measured parameters and also prompts the user with plain language instructions.

Conductivity values can be displayed in Siemens (Conductivity), Mohms (Resistivity), TDS (Total Dissolved Solids) or PPM (Salinity).



Instrument Set-up Menu

SPECIFICATIONS

MODEL CDB-410

Conductivity

Ranges: See table below

Resolution: 0.01 μ S to 0.0001S

Accuracy: $\pm 0.5\%$ ± 2 digits

Temperature Range: -10 to 105°C
(14 to 221°F)

Resolution: 0.1°C/1°F

Accuracy: $\pm 0.5^\circ\text{C}/\pm 1^\circ\text{F}$

ATC Range: 0 to 100°C (32 to 212°F)

Calibration:

On standard solutions 10 μ S,
1413 μ S and 12.88 mS or via cell

Outputs:

Bi-directional RS-232C. Analog output
1mV per digit. Electrode platinizing
socket applying 10 Vac 0.05 Hz

Display: LCD

Power: Power supply 9 Vac
(110 Vac adaptor supplied)

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

Weight: 1.2 kg (2.6 lb)

Conductivity Ranges for CDB-410 and CDB-420

** K = 10 cell only*

MODEL CDB-420

Conductivity

Ranges: See table

0 to 1.999S, 0 to 19.99S with X10 Cell,
0 to 1999g/l, 0 to 20 Mohms

Resolution: 0.001 μ S to 0.01 S

Accuracy:

$\pm 0.5\%$ ± 2 digits, $\pm 2\%$ ± 2 digits
on Megaohm range

Temperature Range: -10 to 105°C
(14 to 221°F)

Resolution: 0.1°C/1°F

Accuracy: $\pm 0.5^\circ\text{C}/\pm 1^\circ\text{F}$

ATC Range: 0 to 100°C, (32 to 212°F)

Salinity Range: 0 to 99.9

Resolution: 0.1

Accuracy: 0 to 35°C (32 to 95°F) ± 1 ;
35 to 99.9°C (95 to 212°F) ± 3

Calibration:

1-, 2-, or 3-point calibration on standard
solutions or via cell constant adjustment

Outputs:

Bi-directional RS-232C. Analog output
with adjustable resolution. 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

GLP:

Calibration reminder with an interval
of 1 to 999 hours from last calibration
timed printout with an interval from 1
second to 1 day

Display: LCD graphics

Power: Power supply 9 Vac
(110 Vac adaptor supplied)

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

Weight: 1.2 kg (2.6 lb)

CDB-410	CDB-420
	0 - 1.999 μ S
0 - 19.99 μ S	0 - 19.99 μ S
0 - 199.9 μ S	0 - 199.9 μ S
0 - 1.999mS	0 - 1.999mS
0 - 19.99mS	0 - 19.99mS
0 - 199.9mS	0 - 199.9mS
*0 - 1.999S	*0 - 1.99S
	*0 - 19.99S

To Order (Specify Model No.)

Model No.	Price	Description
CDB-410	\$833	Benchtop conductivity meter with glass conducting cell (K=1), in-built temperature probe, swing arm electrode holder, and power supply adaptor
CDB-420	1245	Benchtop conductivity meter with glass conducting cell (K=1), in-built temperature probe, swing arm electrode holder, and power supply adaptor

Ordering Example: CDB-410, Benchtop conductivity meter with glass conducting cell (K=1), in-built temperature probe, swing arm electrode holder, and power supply adaptor, \$833.

Accessories

Model No.	Price	Description
CDE-430-1	\$156	Conductivity glass cell (K= 1), with in-built temperature probe
CDE-430-01	165	Conductivity glass cell (K= 0.1), with in-built temperature probe
CDE-430-1-FT	165	Conductivity cell (K=1) with in-built temperature probe
CDE-430-1-EP	201	Conductivity epoxy cell (K= 1), with in-built temperature probe
CDE-430-01-EP	218	Conductivity epoxy cell (K= 0.1), with in-built temperature probe
CDE-430-10-EP	218	Conductivity epoxy cell (K= 10), with in-built temperature probe

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



UNITED STATES

www.omega.com
1-800-TC-OMEGA
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CANADA

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• Temperature

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• 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, Strain Gages, 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