

OAKTON[®] conductivity/°C CON 500 Meter

An **affordable** way to take **consistent, accurate** conductivity measurements in your laboratory!

Dual display shows both conductivity and temperature

plus mode indicators and annunciators to indicate meter status

Auto ranging across five ranges

read conductivity from 0 to 199.9 mS

Five-point conductivity calibration

calibrate one point per range for high $\pm 1\%$ full-scale accuracy

Recalls calibration data

lets you view the exact points at which the meter was previously calibrated

Stores up to 16 conductivity readings plus temperature into memory

save measurements for future retrieval

Selectable manual or automatic temperature compensation

for high accuracy readings with or without a temperature sensor

Choose a cell constant of 0.1, 1.0 or 10.0

lets you choose the best conductivity cell even for very low or high range measurements

Adjustable temperature coefficient

adjust from 0 to 10.0% per °C, depending on your solution—gives you better accuracy

Selectable normalization temperature

choose between 20°C or 25°C

Selectable "Ready" indicator; Hold function

Includes conductivity cell

with cell constant of 1.0—ideal for midrange measurements



Top: The CON 500 meter is designed for laboratory benchtop use. It is less sensitive to electronic noise, which gives you stable, repeatable readings.

Lower left: We offer an assortment of conductivity cells. Choose a dip-style cell for standard measurements, or choose a flow-through cell for continuous in-line measurement.

Lower right: The CON 500 meter is so easy to use, you'll be up and running in minutes!



Achieve lab-grade conductivity readings for an economical price! The OAKTON CON 500 meter accurately reads conductivity from 0 to 199.9 mS across five ranges. Its speed and low cost makes it ideal for all types of routine water quality testing in your laboratory.

The CON 500 meter features a large dual display, a water-resistant membrane keypad, and a slide-out instruction card that stores underneath the meter for quick reference. It includes a sturdy conductivity cell with a cell constant of $K = 1.0$ —ideal for mid-range conductivity measurements.

The CON 500 meter is supported by a full selection of OAKTON calibration solutions, conductivity cells and accessories. See the back of this sheet for ordering information and complete specifications.

Large display shows conductivity on the upper display, temperature on the lower display, and clear indicators to signify different modes and functions.



Back panel features quick connections for conductivity cell, temperature sensor and AC adapter.



Slide out instruction card with a quick keypad reference and troubleshooting tips stores neatly underneath the meter.



Calibration solutions are available in economical bottles or convenient pouches with a tear-off top (order separately).



Conductivity cells for a wide range of applications are available at right.



Bulletin CON C1R1

CON 500 Benchtop Meter

• Applications •

Industrial water laboratories: Check the conductivity of cooling tower water, boiler water, brines, rinse tanks, ponds, recirculating systems, and waste water.

Drinking water analysis: Verify reverse osmosis systems, mixed bed systems, or bottled water.

Research laboratories: Use for analysis or with conductivity flow-through cell as a detector (conductivity flow-through cell sold separately below).

QC laboratories: Check product and make-up constituent values.

• Specifications •

	Range	Resolution	Accuracy
Conductivity	0.00 to 19.99 μ S	0.01 mS	\pm 1% full-scale
	0.0 to 199.9 μ S	0.1 μ S	
	0 to 1999 μ S	1 μ S	
	0.00 to 19.99 mS	0.01 mS	
	0.0 to 199.9 mS	0.1 mS	
Temperature	0 to 80°C (with epoxy probe) 0 to 100°C (with glass probe)	0.1°C	\pm 0.5°C

Calibration: up to five points (one point per range)

Temperature compensation: selectable manual or automatic from 0 to 100°C

Operating temperature: 0 to 50°C

Cell constant: 1.0, 0.1 or 10 selectable (1.0 with probe supplied)

Temperature coefficient: adjustable from 0.0 to 10.0% per °C

Reference temperature: 25°C or 20°C (selectable)

Memory: Up to 16 sets

Display: Dual display of conductivity with temperature and mode annunciators

Error messages: Diagnose operator error, electrode error, and meter error. Pull-out instruction card decodes message

Power: 9 VDC, 500 mA; using AC adapter (included); choose from 110 VAC, 60 Hz or 220 VAC, 50 Hz models. AC adapter is CSA and UL listed.

Dimensions:

Meter: 9" x 7" x 2.375" (23 x 18 x 6 cm)

Boxed: 15.5" x 10" x 3.5" (39 x 25 x 9 cm)

Probe: 5.5"L x 0.5" dia. (140 L x 13 mm dia.) with 2.5 ft (0.8 m) cable

Weight: Meter: 1 lb (0.5 kg); Boxed: 3 lbs (1.4 kg)

• Ordering Information •

CON 500 Meters

Each CON 500 meter includes a conductivity cell with an epoxy body/platinum sensor and K = 1.0 (WD-35607-50), AC adapter, and instructions. Shpg wt 3.0 lbs (1.4 kg).

WD-35610-00 CON 500 meter, 110 VAC.....\$450.00

WD-35610-05 CON 500 meter, 220 VAC.....\$450.00

Conductivity Cells

All of our cells have a built-in temperature sensor. Use a cell with K = 0.1 for very low range readings (below 20 μ S); use a cell with K = 1.0 midrange readings; use a cell with K = 10 for very high range readings (above 20 mS). Shpg wt 0.4 lbs (199 g).

WD-35607-50 Replacement conductivity cell,
epoxy body/platinum sensor. K = 1.0.....\$84.80

WD-35607-51 Conductivity cell,
epoxy body/platinum sensor. K = 10.....\$84.80

WD-35607-55 Conductivity cell,
epoxy body/platinum sensor. K = 0.1.....\$90.10

WD-35607-52 Conductivity cell,
glass body/platinum sensor. K = 1.0.....\$106.00

WD-35607-53 Conductivity cell,
glass body/platinum sensor. K = 10.....\$106.00

WD-35607-56 Conductivity cell,
glass body/platinum sensor. K = 0.1.....\$111.30

WD-35607-57 Conductivity cell,
stainless steel body and sensor. Removable probe guard for easy cleaning. K = 0.1.....\$200.00

WD-35607-54 Flow-through conductivity cell,
glass body/platinum sensor. Use for continuous in-line measurement. K = 1.0.....\$190.80

Calibration Solutions

Calibration solution pouches. box of 20. Each pouch contains 20 ml of premixed calibration solution. Since the pouches are individually sealed, the solution is guaranteed to be fresh and contaminant free every time. Accuracy \pm 1% at 25°C. Shpg wt 1 lb.

Model number	Calibration solution type	Price
WD-35653-10	447 μ S	\$19.00
WD-35653-11	1413 μ S	19.00
WD-35653-12	2764 μ S	19.00
WD-35653-13	15,000 μ S	19.00
Calibration solution bottles. 1 pint of premixed calibration solution in recyclable-PE bottle. Accuracy \pm 1% at 25°C. Shpg wt 1.1 lbs.		
WD-00653-23	23 μ S	\$7.50
WD-00653-16	84 μ S	7.50
WD-00653-47	447 μ S	7.50
WD-00653-18	1413 μ S	7.50
WD-00653-15	1500 μ S	7.50
WD-00653-27	2070 μ S	7.50
WD-00653-20	2764 μ S	7.50
WD-00653-89	8974 μ S	7.50
WD-00606-10	12,880 μ S	8.95
WD-00653-50	15,000 μ S	8.75
WD-00653-32	80 mS	8.95

Accessories

WD-35617-50 Benchtop probe holder. Pivots 360°. Holds conductivity cell steady and keeps it away from the bottom and sides of your container.....\$70.00

WD-35615-07 Replacement AC adapter,
9 VDC to 110 VAC.....\$36.50

WD-35615-08 Replacement AC adapter,
9 VDC to 220 VAC.....\$36.50

• ORDER FROM •