



CON 510 Meter

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

Dual display shows both conductivity or TDS, and temperature in °C or °F

- ▼ Plus mode indicators and annunciators to indicate meter status

Single- and multi-point automatic or manual calibration

- ▼ Customize meter calibration for quick checks or for best meter accuracy

Auto ranging across five ranges

- ▼ Offers the best resolution for your measurements

Advanced setup mode

- ▼ Recalls previous calibration data, conductivity/TDS effective cell constants per range, and more

Built-in nonvolatile memory

- ▼ Stores up to 50 conductivity or TDS readings with corresponding temperature

Automatic or manual temperature compensation

Selectable cell constant

- ▼ K = 0.1 for pure water; K = 1.0 for most applications; K = 10 for concentrated solutions

Adjustable conductivity-to-TDS conversion factor and temperature coefficient

- ▼ Gives highest accuracy in any solution

Selectable normalization temperature

- ▼ Choose between 15 to 30°C

Built-in electrode holder arm; selectable "Ready" indicator; Hold function; diagnostic error messages

Includes conductivity cell

- ▼ With cell constant of 1.0—ideal for most applications

Right: The CON 510 meter includes electrode stand and handy slide-out instruction card.

Lower left: Conductivity/TDS/temperature probe has removable probe guard for easy cleaning.



ISO9001:2000
CERTIFIED SUPPLIER

CE 3 year warranty

Specifications

Mode	Conductivity	TDS	Temperature
Ranges (Resolution)	0.00 to 20.00 μ S (0.01 μ S), 0.0 to 200.0 μ S (0.1 μ S), 0 to 2000 μ S (1 μ S), 0.00 to 20.00 mS (0.01 mS), 0.0 to 200.0 mS (0.1 mS)	0.00 to 10.00 ppm (0.01 ppm), 10.0 to 100.0 ppm (0.1 ppm), 100 to 1000 ppm (1 ppm), 1.00 to 10.00 ppt (0.01 ppt), 10.0 to 100.0 ppt (0.1 ppt), 100 to 200 ppt (1 ppt)	0.0 to 100.0°C (0.1°C), 32.0 to 212.0°F (0.1°F)
Accuracy	±1% full-scale or ±1 digit		±0.5°C, ±0.9°F
Calibration	Automatic: single or multi-point up to 4 points (84 μ S, 1413 μ S, 12.88 mS, 111.8 mS) Manual: single or multi-point up to 5 points per range for multi-point calibration)		Offset 0.1° increments up to ±5°

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

Operating temp: 0 to 50°C (32 to 122°F)

Cell constant (K): 0.1, 1.0 or 10 selectable

Temp coefficient: adjustable from 0 to 10% per °C or °F

Conductivity-to-TDS factor: adjustable from 0.40 to 1.00

Normalization temp: adjustable from 15 to 30°C

Display: dual display of conductivity or TDS, with temperature (°C or °F)

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

Memory: 50 sets

Power: 9 VDC, 500 mA; using AC adapter (included); 110 VAC, 60 Hz or 220 VAC, 50 Hz. 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)

Weight

Meter only: 1.25 lb (0.6 kg); Boxed 3 lb (1.4 kg)

Ordering Information

Catalog number	Description	Includes
WD-35611-00	CON 510 meter	Meter, conductivity cell with an Ultem body/stainless steel sensor K = 1.0 (35608-50), AC adapter, and electrode stand

WD-35608-50 Replacement conductivity cell, Ultem body, stainless steel sensor, built-in temperature sensor (K = 1.0). 3-ft cable

WD-35608-51 Conductivity cell, epoxy body, platinum sensor, built-in temperature sensor (K = 10). 3-ft cable

WD-35608-52 Conductivity cell, glass body, platinum sensor, built-in temperature sensor (K = 1.0). 3-ft cable

WD-35608-55 Conductivity cell, epoxy body, platinum sensor, built-in temperature sensor (K = 0.1). 3-ft cable

WD-35608-57 Conductivity cell, Ultem body, stainless steel sensor, built-in temperature sensor (K = 1.0). 10-ft cable

Calibration Solutions and Accessories

Conductivity/TDS Cells

Choose from three cell constants

All cells feature built-in temperature compensation. A 1.0 cell constant (K) is ideal for midrange conductivity measurements. For high conductivity measurements (near or above 20 mS) order a cell with K = 10.0; for low conductivity measurements (near or below 20 µS), order a cell with K = 0.1.



Conductivity/TDS "Singles" Calibration Pouches

NIST traceable for high accuracy;
±1% accuracy at 25°C

Conductivity/TDS "Singles" are convenient, individually sealed pouches that contain high-precision calibration standards. Ideal for field calibration; just select the pouches you need and carry them to your test site for on-the-spot calibration and verification. Pouches are labeled with equivalent values for KCl, NaCl, and 442 and conductivity values at 25°C and CAS numbers for "Right-to-Know" requirements. Each box contains twenty 20-mL pouches.



Ordering Information

Catalog number	Body/sensor material	Cell constant	Temperature range	Cable length	Probe style
Cells for use with CON 6, TDS 6, and SALT 6					
WD-35606-53	Ultem	K = 0.1	0 to 80°C	3 ft	C
WD-35606-55	Ultem	K = 1.0	0 to 80°C	3 ft	C
WD-35606-57	Ultem	K = 10	0 to 80°C	10 ft	C
Cells for use with CON 400, CON 410, TDS 400, CON 510, pH/CON 300, pH/CON 510, CON 11, and CON 110					
WD-35608-50	Ultem	K = 1.0	0 to 80°C	3 ft	C
WD-35608-57	Ultem	K = 1.0	0 to 80°C	10 ft	C
WD-35608-51	Epoxy	K = 10	0 to 80°C	3 ft	A
WD-35608-52	Glass	K = 1.0	0 to 100°C	3 ft	B
WD-35608-55	Epoxy	K = 0.1	0 to 80°C	3 ft	A
Cells for use with CON 600, CON 610, PC 650, CD 650, and PCD 650					
WD-35408-50	Epoxy	K = 0.1	0 to 80°C	3 ft	A
WD-35408-52	Ultem	K = 1.0	0 to 80°C	3 ft	C
WD-35408-57	Ultem	K = 1.0	0 to 80°C	10 ft	C
WD-35408-54	Epoxy	K = 10	0 to 80°C	3 ft	A
WD-35408-56	Epoxy, 4-cell	K = 0.3	0 to 80°C	3 ft	A
WD-35408-58	Epoxy	K = 0.01	0 to 80°C	3 ft	A

Ordering Information

Catalog number	Conductivity value	Conductivity-to-TDS calibration values		
		ppm KCl	ppm NaCl	ppm 442
WD-35653-09	10 µS	4.7	4.8	7.0
WD-35653-10	447 µS	225.6	215.5	300.0
WD-35653-11	1413 µS	744.7	702.1	1000
WD-35653-12	2764 µS	1382	1414.8	2062.7
WD-35653-13	15,000 µS	8759	8532	13,455
WD-35653-15	5,650 µS	3240	3000	—

WD-35653-00 "Singles" deionized rinse water pouches, 20 pouches/box

Conductivity/TDS Calibration Solutions

NIST-traceable; ±1% accuracy at 25°C

Conductivity/TDS calibration solutions are cross checked using different test methods, premixed, and ready to use. Each one-pint bottle is labeled with the name and CAS number for all ingredients to conform with "Right-to-Know" requirements.



Ordering Information

Catalog number	Conductivity value	Conductivity-to-TDS calibration values		
		ppm KCl	ppm NaCl	ppm 442
WD-00653-23	23 µS	11.6	10.7	14.74
WD-00653-16	84 µS	40.38	38.04	50.50
WD-00653-47	447 µS	225.6	215.5	300.0
WD-00653-18	1413 µS	744.7	702.1	1000
WD-00653-15	1500 µS	757.1	737.1	1050
WD-00653-27	2070 µS	1045	1041	1500
WD-00653-20	2764 µS	1382	1414.8	2062.7
WD-00653-89	8974 µS	5101	4487	7608
WD-00606-10	12,880 µS	7447	7230	11,367
WD-00653-50	15,000 µS	8759	8532	13,455
WD-00653-32	80 mS	52,168	48,384	79,688

Portable Printer

Use with the CON 110 portable meter (pg 42)

Create permanent records of your data from Oakton® meters with RS-232 output! This printer's compact size and rechargeable battery pack make it the perfect printer for both field use and crowded benchtop space. Pre-configured setup selections match the exact parameters of your meter. Accepts standard-sized adding machine rolls and printer ribbons.



Ordering Information

Catalog number	Description	Power
WD-35622-00	Portable printer	110 VAC
WD-35622-05	Portable printer	220 VAC

WD-35622-59 Printer cable, connects printer to your CON 110 meter (or other meters with RS-232 output)

WD-35622-60 Replacement ribbon cartridge

WD-35622-62 Replacement paper, one roll

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