

CON 510 Meter

Conductivity Measurement
Benchtop Meters



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



Top: 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.

Specifications



Mode	Conductivity	TDS	Temperature
Ranges (Resolution)	0.00 to 20.00 μS (0.01 μS), 0.0 to 200.0 μS (0.1 μS), 0 to 2000 μS (1 μS), 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	$\pm 1\%$ full-scale or ± 1 digit		$\pm 0.5^\circ\text{C}$, $\pm 0.9^\circ\text{F}$
Calibration	Automatic: single or multi-point up to 4 points (84 μS , 1413 μS , 12.88 mS, 111.8 mS) Manual: single or multi-point up to 5 points (one user-selectable point per range for multi-point calibration)		Offset 0.1° increments up to $\pm 5^\circ$
Temp 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	Up to 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.		

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, electrode stand, and instructions.

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

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

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

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

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