

# pH/CON 510 Meter

This economical benchtop meter measures pH, mV, conductivity, TDS, and temperature. It's ideal for water quality testing in the lab!

**Easily toggle between pH, mV, conductivity, and TDS readings**

**Dual display shows both measured parameter and temperature (°C/°F)**  
read two parameters at a glance

**Easy push-button calibration**  
Five-point calibration for pH and either conductivity or TDS; temperature offset calibration

**Advanced setup mode**  
recalls previous calibration points, pH electrode slope/offset, conductivity/TDS effective cell constants per range, and more

**Built-in electrode holder arm**  
holds electrodes firmly in place

**pH auto buffer recognition**  
for fast, easy pH calibration

**Selectable auto or manual ranging for conductivity and TDS measurements**

**Adjustable conductivity-to-TDS conversion factor and temperature coefficient**  
gives highest accuracy in any solution

**Selectable manual or automatic temperature compensation**

**Selectable automatic endpoint**  
automatically freezes reading when stable

**Hold function, "Ready" indicator, diagnostic error messages**

**Slide-out instruction card for quick reference**



Unique conductivity probe (included) comes apart for easy cleaning.

pH/CON 510 meter  
35610-10



## Specifications

Mode	Conductivity	TDS	pH	mV	Temp
Range	0.00 to 19.99 $\mu$ S, 0.0 to 199.9 $\mu$ S, 0 to 1999 $\mu$ S, 0.00 to 19.99 mS, 0.0 to 199.9 mS	0.00 to 9.99 ppm, 10.0 to 99.9 ppm, 100 to 999 ppm, 1.00 to 9.99 ppt, 10.0 to 99.9 ppt, 100 to 200 ppt	-2.00 to 16.00 pH	$\pm$ 600 mV	0 to 100°C (32 to 212°F)
Resolution	0.01 $\mu$ S, 0.1 $\mu$ S, 1 $\mu$ S, 0.01 mS, 0.1 mS	0.01 ppm, 0.1 ppm, 1 ppm, 0.01 ppt, 0.1 ppt, 1 ppt	0.01 pH	0.1 mV from $\pm$ 199.9 mV, 1 mV beyond	0.1°C/°F
Accuracy	$\pm$ 1% full-scale	$\pm$ 1% full-scale	$\pm$ 0.01 pH	$\pm$ 0.2 mV from $\pm$ 199.9 mV, $\pm$ 2 mV beyond	$\pm$ 0.5°C/°F
Calibration	One point per range (up to 5)	One point per range (up to 5)	Up to five points (USA: 1.68, 4.01, 7.00, 10.00, 12.45; NIST: 1.68, 4.01, 6.86, 9.18, 12.45)	—	Offset up to $\pm$ 5°C/°F

Input impedance:  $>10^{12} \Omega$   
 Temperature compensation:  
   selectable manual or automatic from 0 to 100°C  
 Conductivity cell constant (K): fixed at 1.0  
 Conductivity temperature coefficient:  
   adjustable from 0.0 to 10.0% per °C  
 Conductivity-to-TDS conversion factor: adjustable  
   from 0.4 to 1.0  
 Normalization temperature: adjustable from 15 to 30°C  
 Display: Dual display of pH, mV, conductivity, or TDS with  
   temperature (in °C or °F)

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

Operating temperature: 0 to 50°C (32 to 122°F),  
 noncondensing humidity

Power: 9 VDC, 500 mA with AC adapter (included). 110 VAC,  
 60 Hz or 220 VAC, 50 Hz. AC adapter is CSA/UL listed.

### Dimensions

Meter: 9"W x 7"D x 2.375"H (23 x 18 x 6 cm)  
 Boxed: 15.5"W x 10"D x 3.5"H (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	Included
WD-35610-10	pH/CON 510 meter 35608-50, electrode stand, AC	Meter, double-junction pH electrode 35641-51, conductivity/temperature probe adapters, and instructions
WD-35610-12	pH/CON 510 meter only	Meter, electrode stand, AC adapters, and instructions