

pH / Conductivity

CyberScan PC 510



CyberScan PC 510 Meter

pH / mV / Conductivity / TDS / °C / °F

- Microprocessor Based
- User Customizable Setup
- Multi-point Push Button Calibration
- Auto Buffer Recognition (pH)
- Selectable NIST or USA pH buffer standards
- Selectable Temperature Coefficient
- Selectable Normalization Temperature & TDS Factor
- Auto Ranging Capability
- Auto-hold
- Easy Toggle Between pH, mV, Conductivity & TDS



Splash-proof Keypad

Large Customized LCD

Back Panel

Integrated Electrode Holder



The CyberScan Series PC 510 meter is equipped with an Application Specific Integrated Circuit (ASIC). The ASIC microprocessor provides a high level of sophistication with several advanced features, while maintaining a user-friendly interface.

USER CUSTOMIZATION

The CyberScan PC 510 Multi-parameter meter permits user-customization of the following functions: • Stability • Unit of temperature measurement (°C/°F) • Temperature Coefficient • Normalization Temperature • Selection of pH buffer standards.

MULTI-PARAMETER MEASUREMENT

The CyberScan PC 510 measures pH, Conductivity, TDS with temperature. The mV mode is useful for electrode diagnosis.

MULTI-POINT PUSH BUTTON CALIBRATION

The PC 510 allows up to 5-point pH calibration and 5-point Conductivity/TDS calibration (one point per range). This improves accuracy and linearity across all ranges. Auto-buffer recognition with the choice of USA or NIST buffer standards makes pH calibration procedure simple and easy. Built-in Automatic Temperature Compensation guarantees high accuracy levels under varying temperature conditions.

AUTO-RANGING

The PC 510 meter is quick to detect and switch to appropriate Conductivity & TDS measuring range, thus eliminating guesswork.

EASE OF USE

Temperature Coefficient, Normalization Temperature & TDS values can be manually keyed in for accurate measurements. Auto-Hold function automatically freezes value when reading stabilizes and user can manually activate HOLD function via keypad to momentarily freeze readings for later reading and recording.

EASY-TO-READ DISPLAY

The large LCD (Liquid Crystal Display) shows both primary (pH or Conductivity) and secondary (temperature) values measured, complete with mode and units of measure. Graphic symbols and self-diagnostic message codes, such as condition of electrode, provide user comprehensive information for easy and trouble-free operation.

CONDUCTIVITY & pH ELECTRODE WITH BUILT-IN TEMPERATURE SENSOR

The conductivity electrode has a built-in temperature sensor and is specially designed to minimise bubble entrapment during measurement. The rugged epoxy body pH electrode has a polymer gel which is non-degradable and resistant to bacterial and fungal attack. In addition, the double-junction pH electrode has the reference element isolated within a second chamber, minimizing contamination, and extending useful life of the electrode.

INNOVATIVE DESIGN

A handy slide-out instruction card serves as a reference guide for keypad functions and troubleshooting. Keypad is splash-proof to protect the meter from accidental spills. Tactile feedback during operation confirms key selection. Non-skid rubber pads immobilise meter during operation. A built-in electrode holder provides table top convenience and is a space saver.

Eutech also provides meter accessories and calibration standards. Refer to separate brochures for information. Eutech Instruments warrants its meter free from manufacturing defects for 3 years and electrodes for 6 months.

The CyberScan series are registered under U.S. Patent #371,748. Patents outside U.S. are pending.

Note: We reserve the right to make changes, improvements and modifications to products shown.

SPECIFICATIONS

CyberScan PC 510 Meter	
pH Range	-2.00 to 16.00 pH
Resolution / Accuracy	0.01 pH / ±0.01 pH
Calibration	Up to 5 points USA (pH 1.68, 4.01, 7.00, 10.01, 12.45) NIST (pH 1.68, 4.01, 6.86, 9.18, 12.45)
pH Slope & Offset Display	Yes
mV Range	-600 to 600 mV
Resolution / Accuracy	0.1 mV / ±0.2 mV (below 200 mV) 1 mV / ±2 mV (above 200 mV)
Conductivity Range	0 to 19.99, 199.9, 1999 µS / cm; 19.99, 199.9 mS / cm
Resolution	0.01, 0.1, 1 µS / cm; 0.01, 0.1 mS / cm
TDS Range	0 to 9.99, 99.9, 999 ppm; 9.99, 99.9 ppt, Max. of 199.9 ppt based on factor setting
Resolution	0.01, 0.1, 1 ppm; 0.01, 0.1 ppt
Accuracy	±1% Full Scale + 1 digit
Calibration	Up to 5 points (1 point per range)
Cell Constant (k)	1.0
Conductivity to TDS	0.40 to 1.00 (adjustable)
Conversion factor	
Temperature Coefficient	0.0 to 10.0% per °C (adjustable)
Normalization Temperature	15.0 to 30.0 °C (adjustable)
Auto-ranging	Yes
Temperature Range	-10.0 to 110.0 °C (14.0 °F to 230.0 °F)
Resolution / Accuracy	0.1 °C (0.1 °F) / ±0.5 °C (±0.5 °F)
Temperature Compensation	Automatic / Manual (0 to 80 °C)
Operating Temperature	0 to 50 °C
Averaging / Stability (READY) / Auto-hold	Yes (Selectable)
HOLD function	Yes
Display	Custom Dual LCD
Inputs	BNC (for pH) and 6-pin connector (for Temperature and Conductivity)
Power Requirements	9 VDC
Dimension / Weight	Meter: 18 x 23 x 6 cm; 570 g Boxed: 40 x 26 x 9 cm; 1400 g

ORDERING INFORMATION

Order No.	Item
EC-PCWP510/03S	CyberScan PC 510 meter with EC-FE72522-01B, EC-CONSEN91W and integral electrode stand
EC-FE72522-01B	Epoxy body double junction pH electrode (1m cable)
EC-CONSEN91W	Plastic body Conductivity electrode (k=1.0) with 2 stainless steel rings and built-in temperature sensor
EC-PHWPTM-01W	Temperature probe
EC-120-ADA	AC / DC power adapter (120 VAC, 50/60 Hz)
EC-220-ADA	AC / DC power adapter (220 VAC, 50/60 Hz)

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