

CyberScan

CON 11/110

for Conductivity & TDS
(Total Dissolved Solids)



CyberScan CON 11 Meter

Conductivity / TDS / °C

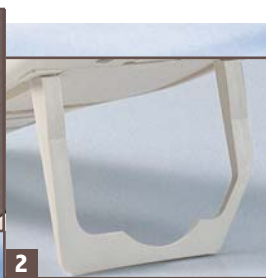
CyberScan CON 110 Meter

Conductivity / TDS / °C / °F / RS 232C



- Microprocessor Based
- ±1% full scale accuracy
- User Customisable Functions
- Single & Multi-point Automatic or Manual Calibration
- Auto-ranging Capability
- Store / Recall up to 100 Data Sets
- Adjustable Temperature Coefficient and TDS factor
- Self Diagnostic Messages
- RS 232C Communication Port





- 1 Large customised display
- 2 Built-in meter stand
- 3 RS 232C (CON 110)
- 4 Kit set



The CyberScan CON 11/110 Conductivity meters are equipped with new generation Application Specific Integrated Circuits that provide many advanced features and user customisable options while maintaining a user-friendly interface. Battery or AC mains powered, these meters are ideal for both lab and field conductivity measurements.

USER CUSTOMISABLE OPTIONS

Among the several user-customisable options are: Selection of Normalisation Temperature, Temperature Coefficient, TDS (Total Dissolved Solids) factor, Cell constant, Memory Input and Recall, Printing, Auto-off, READY indication, Default Setup and View Electrode Diagnosis.

SINGLE-POINT/ MULTI-POINT AUTOMATIC OR MANUAL CALIBRATION

The CyberScan CON 11/110 meters allow single or multi-point calibration (up to 4 points) in the automatic mode for quick and easy calibration. In addition, manual calibration (up to 5 points) is possible using non-standard conductivity solutions depending on your calibration needs.

AUTO-RANGING FUNCTION

The CyberScan CON 11/110 meters auto range to detect the appropriate measurement range that best suits the measurement. Both meters are suitable for a wide variety of applications from low conductivity samples like clean water to high conductivity samples like dilute acids.

MEMORY AND COMPUTER INTERFACE

Up to 100 data sets can be stored in a non-volatile memory which prevents data loss even when meter is powered off. A RS232 port (CON 110) at the bottom of the instrument enables transfer of data (via cable) to a printer or a computer for further analysis. Data acquisition software and cables are included.

EASY-TO-READ DUAL DISPLAY

The custom designed dual LCD (Liquid Crystal Display) is extremely easy to read. It displays primary (Conductivity) and secondary (Temperature) modes simultaneously, complete with units of measure. Graphical icons and self-diagnostic message codes provide user comprehensive information for easy operation.

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. Wetted materials include Stainless Steel, PBT and Ultem, all of which have excellent chemical durability.

INNOVATIVE DESIGN

The Con 11 / 110 meters are innovative and ergonomic in design. Meters are designed for convenient one-hand field operation and table top laboratory use. Keypad is splash-proof and designed for easy finger touch operation. Aesthetic attachments include a electrode holder for conductivity electrode and a built-in meter stand for table top measurements. A rugged carrying case enables compact and convenient storage of meter, electrode, calibrating solutions and accessories helpful for field testing.

WARRANTY

Eutech Instruments warrants its meters to be free from manufacturing defects for 3 years and electrodes for 6 months.

Eutech Instruments also provides meter accessories and calibration standards. Refer to separate brochures for information.

The CyberScan series meters are registered under U.S. Patent #354,921. Patents outside U.S. are pending.

Note: Eutech Instruments reserves the right to make changes, improvements and modifications to products shown.

Meter Specifications:

	CON 11			CON 110		
	Range	Resolution	Accuracy	Range	Resolution	Accuracy
CON	0 to 19.99 μ S	0.01	$\pm 0.2 \mu$ S	0 to 19.99 μ S	0.01	$\pm 0.2 \mu$ S
	20.0 to 199.9 μ S	0.1	$\pm 2 \mu$ S	20.0 to 199.9 μ S	0.1	$\pm 2 \mu$ S
	200 to 1999 μ S	1	$\pm 20 \mu$ S	200 to 1999 μ S	1	$\pm 20 \mu$ S
	2.00 to 19.99 mS	0.01	± 0.2 mS	2.00 to 19.99 mS	0.01	± 0.2 mS
TDS	20.0 to 199.9 mS	0.1	± 2 mS	20.0 to 199.9 mS	0.1	± 2 mS
	1.00 to 9.99 ppm	0.01	± 0.1 ppm	1.00 to 9.99 ppm	0.01	± 0.1 ppm
	10.0 to 99.9 ppm	0.1	± 1 ppm	10.0 to 99.9 ppm	0.1	± 1 ppm
	100 to 999 ppm	1	± 0.1 ppt	100 to 999 ppm	1	± 0.1 ppt
TDS Factor	0 to 9.99 ppt	0.01	± 1 ppt	0 to 9.99 ppt	0.01	± 1 ppt
	10.0 to 99.9 ppt	0.1	± 10 ppt	10.0 to 99.9 ppt	0.1	± 10 ppt
TDS Factor	0.4 to 1.0			0.4 to 1.0		
Temp °C	-10.0 to 110.0			-10.0 to 110.0		
Temp °F	—			14 to 230		
Resolution °C	0.1			0.1		
Resolution °F	—			0.1 (14 to 199.9)		
	—			1.0 (200 to 230)		
Accuracy °C	± 0.5			± 0.5		
Accuracy °F	—			± 0.9		
Auto-hold	—			Yes		
Memory	50			100		
Output	—			RS 232C		
Inputs	6-pin connector, power jack					
Temperature Compensation	Automatic / Manual (from 0 to 100 °C)					
Temperature Coefficient	0.0 to 10.0% / °C					
Normalization Temperature	20.0 or 25.0 °C					
Cell Constant, K	0.1, 1.0, 10.0 (Selectable)					
Calibration Points	84, 1413 μ S/cm; 12.88, 111.8 mS/cm.					
Automatic / Manual	User defined standard / 1 per range up to 5 points					
Single / Multi point Cal.	Selectable					
Auto-Ranging	Yes (manual select available)					
Hold Function	Yes					
Auto Power-off	After 20 minutes (selectable)					
Averaging / Stability (READY)	Selectable					
Operating Range	0 to 50 °C					
Display	Custom Dual LCD					
Power Requirements	4 'AAA' alkaline batteries, AC / DC adapter 9V, 200 mA					
Battery Life	> 200 hours					
Dimensions / Weight	Meter : 18.7 x 9 x 4cm ; 290g Boxed : 24 x 23 x 7cm ; 650g					

ORDERING INFORMATION

Order No.	Item
EC-CON11/03*	CyberScan CON 11 meter with conductivity electrode EC-CONSEN91W)
EC-CON110/03*	CyberScan CON 110 meter with RS232C cable (EC-CA01M09F09), software and conductivity electrode (EC-CONSEN91W)
EC-CONSEN91W	Ultem-body conductivity electrode (K = 1.0) with 2 stainless steel rings and built-in temperature sensor
EC-CONSEN72W	Epoxy-body conductivity electrode (K = 0.1) with 2 platinum rings and built-in temperature sensor
EC-CONSEN73W	Epoxy-body conductivity electrode (K = 10.0) with 2 platinum rings and built-in temperature sensor
EC-POUCH02	Carrying pouch for portable meter

* Please add "K" to order with carry cases and calibration solutions. Electrodes are supplied with 1-metre cable length and 6-pin connector.



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