# CyberScan
# Series 100
## f o r   p H

CyberScan pH 100 Meter
pH / mV / Rel mV / ºC / RS 232C

CE  **ISO 9001** CERTIFIED

- Microprocessor Based

- 5-point Push
  Button Calibration

- Auto Buffer Recognition

- User Customizable Setup

- Stores/Recalls 16 Data Sets

- Large, Easy-to-read Display

- Self Diagnostic Messages

- RS 232C Communication Port

3 Year Warranty

EUTECH
INSTRUMENTS
*Technology Made Easy ...*

The standard CyberScan pH 100 meter is equipped with an Application Specific Integrated Circuit (ASIC). The ASIC microprocessor provides many advanced features through its user customizable setup functions, while maintaining a user-friendly interface.

## USER CUSTOMIZATION

CyberScan pH 100 meter permits user-customization of the following functions:
• pH Resolution • READY • Auto-Off • Default • Memory • Communication Protocol.

## MULTI-POINT CALIBRATION

Up to 5-point calibration with standard pH buffer options maximises full range accuracy. Auto-buffer recognition minimises calibration errors and built-in Automatic Temperature Compensation (ATC) ensures reliability of measurement under fluctuating temperature conditions.

## MULTI-PARAMETER MEASUREMENT

In addition to pH and temperature measurement, the millivolt range allows for ORP (Redox) and Ion concentration measurement.
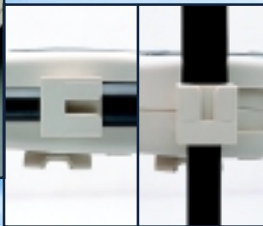
## EASY-TO-READ DISPLAY

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

## MEMORY AND COMMUNICATION

Up to 16 data sets can be stored in a non-volatile memory which prevents data loss even when meter is powered off. A RS232 port concealed at the bottom of the instrument enables transfer of data (via cable) to a printer or a computer for analysis. Data aquisition software (EC-DAS-200) and RS232C cable are included.

| Specifications: CyberScan pH 100 Meter | |
| --- | --- |
| pH Range | -2.00 to 16.00 pH |
| Resolution | 0.01/0.1 pH (selectable) |
| Accuracy | ± 0.01/0.1 pH (selectable) |
| Slope Range | 80 to 120% |
| Temperature Range | 0.0 to 100.0 ℃ |
| Resolution | 0.1 ℃ |
| Accuracy | ± 0.5 ℃ |
| Millivolt Range | -1999 to +1999 mV |
| Millivolt Range (Extended) | -399.9 to +399.9 mV |
| Resolution | 0.1 mV (within ±399.9 mV); 1 mV (beyond ±400 mV) |
| Accuracy | ±0.2 mV (within ±399.9 mV); ±2 mV (beyond ±400 mV) |
| Temperature Compensation | Automatic/manual (from 0 to 100 ℃) |
| No. Of Buffer Values | 5 (pH 1.68,4.01,7.00,10.01,12.45) |
| No. Of Calibration Points | 1 to 5 |
| pH Slope & Offset Display | Yes |
| Relative mV Offset Display | Yes |
| Hold / Auto Power-Off functs | Yes |
| Memory | 16 Data Sets |
| Averaging/Stability (READY) | Selectable |
| Display | Custom LCD |
| Inputs | BNC, phono, power jack |
| Output | RS 232C |
| Operating Range | 0 to 50 ℃ |
| Power Requirements | 4 'AAA' batteries AC/DC adapter 9V, 500 mA |
| Battery Life | > 100 hours |
| Dimension/Weight | Meter: 18 x 9 x 4cm ; 220g Boxed: 24 x 23 x 7cm ; 600g |

1 Large customized LCD
2 Neat storage of cable
3 RS232C
4 Electrode holder

## SELF DIAGNOSTIC MESSAGES

Diagnostic information is available on: • Electrode Characteristics (pH Slope & Offset) • Relative mV Base Unit • Calibrated Values.

## SPLASH-PROOF KEYPAD

Keypad is splash-proof and designed for easy finger touch operation. Tactile feedback confirms key selection eliminating guesswork.

## INNOVATIVE DESIGN

Eutech hand-held meter is ergonomically designed for both convenient one-hand field operation and routine laboratory use as a bench top. Aesthetic attachments include an electrode holder which allows convenient positioning of electrode, a cable winder which provides space for storage of excess cable and a sturdy hinge for bench top measurements.

## WARRANTY

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

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

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

## ORDERING INFORMATION

| Order No. | Item |
| --- | --- |
| EC-PH100/01N | CyberScan pH 100 meter with EC-PH-TEM01P, EC-DAS-200 and EC-CA01M09F09 |
| EC-FE72521-01B | Epoxy body single junction pH electrode (1m) |
| EC-FE72522-01B | Epoxy body double junction pH electrode (1m) |
| EC-FE79601-01B | Epoxy body single junction ORP electrode (1m) |
| EC-FE79602-01B | Epoxy body double junction ORP electrode (1m) |
| EC-FE73528-01B | 3-in-1 pH/temp. combination electrode (1m) |
| EC-FG73504-01B | Glass body refillable pH combination electrode (1m) |
| EC-PH-TEM01P | Temperature probe |
| EC-CA01M09F09 | RS 232C communication cable |

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