

# Conductivity bench meter

The conductivity bench meter is a single-channel, research-grade laboratory EC/Resistivity/TDS/Salinity Bench Meter with a backlit 240 x 320 dot-matrix color screen capable of millesimal measuring resolution. This unit features auto-recognition of probe type (2 or 4 ring and nominal cell constant) and has an extended range from 0.001  $\mu\text{S}/\text{cm}$  to 1  $\text{S}/\text{cm}$ . The user can choose from three different salinity scales (practical salinity, natural sea water and percent) and adjust the temperature compensation from linear to natural water.

An enhanced warning system, including acoustic signals, alerts the user when measuring outside the calibration range. This system also reminds the user when a new calibration is due. This meter performs all 3 stages of USP <645> conductivity tests for water quality. The instrument provides clear directions on how to perform each testing stage, automatically monitors the temperature, conductivity and stability during testing and determines whether a sample is within UPS limits. Equipped with Auto Standard Recognition, this meter supports custom calibration solutions. Obtain up to a 4-point calibration for enhanced accuracy over an extended measuring range.

Features also include real-time graphic displays, on-screen GLP data and a fully customizable SET-UP menu. This unit can also be given a unique ID number. The user may consult the on-board contextual help from any mode simply by pressing the HELP menu. All the features are available in English, Italian, French and Spanish. Connect to a PC via the USB and RS232 ports for PC connectivity and access the HI 92000 Windows® compatible data spreadsheet. Equipped with a 12 Vdc power supply.



## Technical specifications

### Range EC

0,000 to 9,999  $\mu\text{S}/\text{cm}$ ; 10,00 to 99,99  $\mu\text{S}/\text{cm}$ ; 100,0 to 999,9  $\mu\text{S}/\text{cm}$ ; 1,000 to 9,999  $\text{mS}/\text{cm}$ ; 10,00 to 99,99  $\text{mS}/\text{cm}$ ; 100,0 to 999,9  $\text{mS}/\text{cm}$ ; 1000  $\text{mS}/\text{cm}$

### Resolution EC

0,001  $\mu\text{S}/\text{cm}$ ; 0,01  $\mu\text{S}/\text{cm}$ ; 0,1  $\mu\text{S}/\text{cm}$ ; 0,001  $\text{mS}/\text{cm}$ ; 0,01  $\text{mS}/\text{cm}$ ; 0,1  $\text{mS}/\text{cm}$ ; 1  $\text{mS}/\text{cm}$

### Accuracy EC

$\pm 1\%$  of reading ( $\pm 0,01 \mu\text{S}/\text{cm}$ )

### Range Resistivity

1,00 to 99,99  $\text{Ohm}\cdot\text{cm}$ ; 100,0 to 999,9  $\text{Ohm}\cdot\text{cm}$ ; 1,000 to 9,999  $\text{kOhm}\cdot\text{cm}$ ; 10,00 to 99,99  $\text{kOhm}\cdot\text{cm}$ ; 100,0 to 999,9  $\text{kOhm}\cdot\text{cm}$ ; 1,00 to 9,99  $\text{MOhm}\cdot\text{cm}$ ; 10,0 to 100,0  $\text{MOhm}\cdot\text{cm}$

### Resolution Resistivity

0,01  $\text{Ohm}\cdot\text{cm}$ ; 0,1  $\text{Ohm}\cdot\text{cm}$ ; 0,001  $\text{kOhm}\cdot\text{cm}$ ; 0,01  $\text{kOhm}\cdot\text{cm}$ ; 0,1  $\text{kOhm}\cdot\text{cm}$ ; 0,01  $\text{MOhm}\cdot\text{cm}$ ; 0,1  $\text{MOhm}\cdot\text{cm}$

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### Accuracy Resistivity

±2% of reading (±1 Ohm•cm)

### Range TDS

0,000 to 9,999 ppm; 10,00 to 99,99 ppm; 100,0 to 999,9 ppm; 1,000 to 9,999 ppt; 10,00 to 99,99 ppt; 100,0 to 400,0 ppt

### Resolution TDS

0,001 ppm; 0,01 ppm; 0,1 ppm; 0,001 ppt; 0,01 ppt; 0,1 ppt

### Accuracy TDS

±1% of reading (±0,01 ppm)

### Factor TDS

0,40 to 1,00

### Range Salinity

Practical salinity 0,00 to 42,00; Natural seawater: 0,00 to 80,00 ppt; Percent: 0,0 to 400,0%

### Resolution Salinity

0,01 for practical salinity/natural sea water; 0,1% for percent scale

### Accuracy Salinity

±1% of reading

### Range Temperature

-20,0 to 120°C; -4,0 to 248,0°F; 253,15 to 393,15K

### Resolution Temperature

0,1°C; 0,1°F; 0,1K

### Accuracy Temperature

±0,2°C; ±0,4°F; ±0,2K

### Calibration EC

Auto standard recognition, custom calibration solution/4 point calibration

### Calibration Salinity

Percent scale—1 point (with HI 7037 buffer)

### Calibration Temperature

3 points

### Input Channel(s)

1 EC

### Temperature Compensation EC

Linear and non-linear (natural water)

### Log-On-Demand

10 Lots, 5000 samples per lot

### Auto Endpoint

Yes

### PC Connection

Opto-isolated USB and RS232

### Display

240 x 320 dot-matrix color LCD with on-screen help, graphing, language selection and custom configuration

### Power Supply

12 VDC adapter (included)

## Physical specifications

### Dimensions

159 x 230 x 93 mm (6,3 x 9,1 x 3,7")

### Weight

800 g (1,8 lb)

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