



HI 98321 • HI 98322

# Waterproof, Conductivity, TDS & Temperature Meters

- High accuracy
- Dual-level LCD
- Built-in funnel
- Automatic calibration
- Automatic Temperature Compensation

The new HI 98321 & HI 98322 portable meters from Hanna are designed for quick and easy, high accuracy, conductivity, TDS & temperature measurements. These microprocessor meters have been developed in direct response to the requests of users in Water Treatment, Boilers & Cooling Towers, Reverse Osmosis & Agriculture.





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## Waterproof, Conductivity, TDS & Temperature Meters

The new HI 98321 & HI 98322 portable meters from Hanna are designed for quick and easy, high accuracy conductivity, total dissolved solids (TDS) and temperature measurements. These new, waterproof instruments have a dual-level LCD that displays conductivity or TDS while simultaneously displaying temperature in °F or °C. These micro-processor-based meters have been developed in direct response to the requests of users in Water Treatment, Boilers and Cooling Towers, Reverse Osmosis and Agriculture. The rugged, easy-to-use HI 98321 & HI 98322 both feature an on-board sample cell with built-in funnel, digital readout, push-button automatic calibration and automatic temperature compensation. The conductivity/TDS conversion factor and temperature coefficient ( $\beta$ ) are user-adjustable for application-specific measurements.



At startup, the HI 98321 & HI 98322 perform a self-check and then display the battery level to assure proper working condition. They also have a stability indicator and hold feature to prompt the user when to take the reading and freeze the display for easy and accurate recordings.

| Specifications           |        | HI 98321  | HI 98322            |
|--------------------------|--------|---|---------------------|
| Range                    | EC     | 0 to 3999 $\mu$ S/cm  | 0.00 to 20.00 mS/cm |
|                          | TDS    | 0 to 2000 ppm   | 0.00 to 10.00 ppt   |
|                          | Temp.  | 32.0 to 140.0°F or 0.0 to 60.0°C  |                     |
| Resolution               | EC     | 1 $\mu$ S/cm  | 0.01 mS/cm          |
|                          | TDS    | 1 ppm   | 0.01 ppt            |
|                          | Temp.  | 0.1°F or 0.1°C  |                     |
| Accuracy (@ 20°C/68°F)   | EC/TDS | ±2% F.S.  |                     |
|                          | Temp.  | ±1°F or ±0.5°C  |                     |
|                          | EC/TDS | ±2% F.S.  |                     |
| Typical EMC Deviation    | Temp.  | ±1°F or ±0.5°C  |                     |
|                          | EC/TDS | Automatic 1 point at: 1413 $\mu$ S/cm   |                     |
| EC/TDS Calibration       |        | Automatic 1 point at: 12.88 mS/cm   |                     |
| EC/TDS Conversion Factor |        | Adjustable from 0.45 to 1.00  |                     |
| Temp. Compensation       |        | Automatic, $\beta$ adj. from 0.0 to 2.4%/°C   |                     |
| Environment              |        | 32 to 122°F (From 0 to 50°C); RH 95%  |                     |
| Battery Type/Life        |        | 4 x 1.5V AA with BEPS (Battery Error Prevention System)/Approx. 2000 hours continuous use, auto-off after 8 minutes of non-use. |                     |
| Dimensions               |        | 3.9 x 2.1 x 1.5" (121 x 53 x 38 mm)   |                     |
| Weight                   |        | 7.1 oz. (200 g)   |                     |

### Ordering Information

HI 98321 and HI 98322 are supplied complete with batteries and instructions.

### Recommended Accessories

HI 70031P ..... .1413  $\mu$ S/cm @ 25°C calibration kit (25 x 20 mL)  
 HI 70032P ..... .1382 ppm @ 25°C calibration kit (25 x 20 mL)  
 HI 70030P ..... .12880  $\mu$ S/cm @ 25°C calibration solution (25 x 20 mL)  
 HI 70038P ..... .6.44 ppt @ 25°C calibration kit (25 x 20 mL)

Hanna Solutions are available in different sizes to fit any application.



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