



HI99300 · HI99301

## Portable EC Meters

EC/TDS and Temperature

- **ATC**
  - Automatic temperature compensation
- **Methods**
  - Measures EC/TDS and Temperature
- **Battery Error Prevention System (BEPS)**
  - Alerts the user of low battery power that could adversely affect readings
- **Battery indicator**
  - Battery life indicator at startup
- **One-point calibration**
  - One-point EC/TDS calibration
- **Waterproof**

The HI99300 and HI99301 are portable EC/TDS and temperature meters. HI99300 measures low range conductivity in  $\mu\text{S}/\text{cm}$  and TDS in ppm while the HI99301 measures high range conductivity in  $\text{mS}/\text{cm}$  and TDS in ppt. Both instruments are housed in a case rated for IP67 conditions.

These instruments offer single point, automatic calibration with automatic temperature compensated measurements. The compensation coefficient and EC/TDS conversion factor are user-selectable from 0.45 to 1.00 and temperature coefficient is selectable from 0.0 to 2.4%/°C.

These instruments easily fit in the palm of your hand and the bottom probe connection ensures the electrode cable doesn't get in your way. The large, multi-level LCD displays the primary reading, temperature and calibration guides simultaneously. Symbols and messages on the LCD indicate meter status and guides users through operations.

At start-up, the meter shows the remaining battery percentage; when a low battery condition is detected, a battery symbol appears on the LCD to advise the user that only a few hours of working time is left.

The HI76306 EC/TDS and temperature probe resists clogging and is easy to clean.

| Specifications            | HI99300   | HI99301  |  |
|---------------------------|---|--|--|
| EC                        | Range   | 0 to 3999 $\mu\text{S}/\text{cm}$  | 0.00 to 20.00 $\text{mS}/\text{cm}$  |
|                           | Resolution  | 1 $\mu\text{S}/\text{cm}$  | 0.01 $\text{mS}/\text{cm}$   |
|                           | Accuracy  | $\pm 2\%$ F.S.   | $\pm 2\%$ F.S.   |
| TDS                       | Range   | 0 to 2000 ppm (mg/L)   | 0.00 to 10.00 ppt (g/L)  |
|                           | Resolution  | 1 ppm (mg/L)   | 0.01 ppt (g/L)   |
|                           | Accuracy  | $\pm 2\%$ F.S.   | $\pm 2\%$ F.S.   |
| Temperature               | Range   | 0.0 to 60.0°C/32.0 to 140.0°F  | 0.0 to 60.0°C/32.0 to 140.0°F  |
|                           | Resolution  | 0.1°C/0.1°F  | 0.1°C/0.1°F  |
|                           | Accuracy  | $\pm 0.5^\circ\text{C}/\pm 1^\circ\text{F}$  | $\pm 0.5^\circ\text{C}/\pm 1^\circ\text{F}$  |
| Additional Specifications | Calibration   | automatic, one point at 1413 $\mu\text{S}/\text{cm}$ , 1382 ppm (CONV 0.5) or 1500 ppm (CONV 0.7)    | automatic, one point at 12.88 $\text{mS}/\text{cm}$ , 6.44 ppt (CONV 0.5) or 9.02 ppt (CONV 0.7) |
|                           | EC/TDS Temperature Compensation   | automatic, 0 to 60°C (32 to 140°F) with $\beta$ adjustable from 0.0 to 2.4%/°C with 0.1% step        |  |
|                           | EC/TDS Factor   | adjustable from 0.45 to 1.00 with 0.01 step (default 0.50)   |  |
|                           | Probe   | HI76306 EC/TDS probe with internal temperature sensor, DIN connector and 1 m (3.3') cable (included) |  |
|                           | Battery Type / Life   | 1.5V AAA (3) / approximately 500 hours of continuous use   |  |
|                           | Environment   | 0 to 50°C (32 to 122°F); RH max. 100%  |  |
|                           | Dimensions  | 152 x 58 x 30 mm (6.0 x 2.3 x 1.2")  |  |
|                           | Weight  | 205 g (7.2 oz)   |  |
| Ordering Information      | HI99300 and HI99301 are supplied with HI76306 EC/TDS probe, batteries, instructions and rugged carrying case. |  |  |