



### Specifications

|                          |             | <b>HI 2300</b>   |
|--------------------------|-------------|--|
| Range                    | EC          | 0.00 to 29.99 $\mu\text{S}/\text{cm}$ ; 30.0 to 299.9 $\mu\text{S}/\text{cm}$ ; 300 to 2999 $\mu\text{S}/\text{cm}$ ;<br>3.00 to 29.99 $\text{mS}/\text{cm}$ ; 30.0 to 200.0 $\text{mS}/\text{cm}$ ;<br>up to 500.0 $\text{mS}/\text{cm}$ (actual EC)*   |
|                          | TDS         | 0.00 to 14.99 $\text{mg}/\text{L}$ (ppm); 15.0 to 149.9 $\text{mg}/\text{L}$ (ppm);<br>150 to 1499 $\text{mg}/\text{L}$ (ppm); 1.50 to 14.99 $\text{g}/\text{L}$ (ppt); 15.0 to 100.0 $\text{g}/\text{L}$ (ppt);<br>up to 400.0 $\text{g}/\text{L}$ (actual TDS)*, with 0.80 conversion factor |
|                          | NaCl        | 0.0 to 400.0%  |
|                          | Temperature | -9.9 to 120.0°C  |
| Resolution               | EC          | 0.01 $\mu\text{S}/\text{cm}$ ; 0.1 $\mu\text{S}/\text{cm}$ ; 1 $\mu\text{S}/\text{cm}$ ;<br>0.01 $\text{mS}/\text{cm}$ ; 0.1 $\text{mS}/\text{cm}$   |
|                          | TDS         | 0.01 $\text{mg}/\text{L}$ ; 0.1 $\text{mg}/\text{L}$ ; 1 $\text{mg}/\text{L}$ ;<br>0.01 $\text{g}/\text{L}$ ; 0.1 $\text{g}/\text{L}$  |
|                          | NaCl        | 0.1%   |
|                          | Temperature | 0.1°C  |
| Accuracy                 | EC          | $\pm 1\%$ of reading $\pm (0.05 \mu\text{S}/\text{cm}$ or 1 digit)   |
|                          | TDS         | $\pm 1\%$ of reading $\pm (0.03 \text{ mg}/\text{L}$ or 1 digit)   |
|                          | NaCl        | $\pm 1\%$ of reading   |
|                          | Temperature | $\pm 0.4^\circ\text{C}$  |
| Calibration              | EC          | automatic, 1 point with 6 memorized values (84, 1413, 5000, 12880, 80000, 111800 $\mu\text{S}/\text{cm}$ )   |
|                          | NaCl        | 1 point, with HI 7037 calibration solution   |
|                          | Temperature | 2-point, at 0 and 50°C (32 and 122°F)  |
| Temperature Compensation |             | automatic or manual, 0 to 60°C (32 and 140°F)  |
| Temperature Coefficient  |             | selectable from 0.00 to 6.00%/°C (EC and TDS only)   |
| TDS Conversion Factor    |             | selectable from 0.40 to 0.80 (default value: 0.50)   |
| Probe (included)         |             | HI 76310, 4-ring platinum, internal temperature sensor   |
| Auto-off                 |             | after 5 minutes of non-use (can be disabled)   |
| Power Supply             |             | 12 Vdc power adapter (included)  |
| Environment              |             | 0 to 50°C (32 to 122°F); RH max 95%  |
| Dimensions/Weight        |             | 240 x 182 x 74 mm (9.4 x 7.2 x 2.9") / 1.1 kg (2.4 lb.)  |

\* with temperature compensation function disabled

### Accessories

|          |   |           |  |
|----------|---|-----------|--|
| HI 76310 | 4-ring Pt sensor EC/TDS probe with built-in temperature sensor and 1 m (3.3') cable | HI 7035L  | 111800 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle |
| HI 7030L | 12880 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle                   | HI 7039L  | 5000 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle   |
| HI 7031L | 1413 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle                    | HI 7037L  | 100% NaCl standard solution, 500 mL bottle                         |
| HI 7033L | 84 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle                      | HI 710005 | 115 Vac/12 Vdc power adapter                                       |
| HI 7034L | 80000 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle                   | HI 710006 | 230 Vac/12 Vdc power adapter                                       |
|          |   | HI 920010 | Cable for PC connection  |
|          |   | HI 92000  | Windows® compatible software                                       |

For a complete range of calibration, cleaning and maintenance solutions, see section F. For accessories, see section U.

HI 2300 performs EC, TDS (Total Dissolved Solids), percentage of NaCl and temperature measurements. The auto-ranging feature for EC and TDS measurements automatically set the resolution suitable to the tested sample.

All measurements can be temperature compensated at 20 or 25°C and the compensation coefficient is selectable by the user. The automatic temperature compensation can also be disabled for measuring the actual conductivity value. The stability indicator on the LCD ensures accuracy.

Conductivity readings are performed by applying an alternate current to the 4-ring probe which creates a variable voltage depending on the conductivity.

The GLP feature allows users to store and recall data about system status.

### Ordering Information

HI 2300 is supplied complete with HI 76310 probe, 12 Vdc power adapter and instructions.