

DiST®: HI98301 · HI98302 · HI98303 HI98304

## EC and TDS Testers

- Waterproof
- Automatic temperature compensation (ATC)
- Automatic one-point calibration
- Measurement stability indicator
- Temperature measurement

The DiST® family of testers is widely used for monitoring EC/TDS in drinking water, water conditioning, reverse osmosis, cooling towers, wastewater, laboratories, agriculture, aquaculture and aquariums, hydroponics, and the printing industry.

These testers feature an amperometric graphite electrode that provides improved repeatability in measurements, since they do not oxidize. An amperometric measurement of EC/TDS is based on Ohm's Law,  $I = V/R$ , where R depends on the distance between two pins and their surface. Oxidation changes both the distance and surface, which will directly affect accuracy. DiST® non-oxidizing graphite pins are able to provide an optimal surface for accurate, dependable results.

When calibration is needed, simply submerge the electrode tip into calibration solution and the meter will auto calibrate.



Supplied in a carrying case with buffer and cleaning solutions.



| Specifications            |                                                                                                                                                                        | HI98301 (DiST®1)                                       | HI98302 (DiST®2)        | HI98303 (DiST®3)    | HI98304 (DiST®4)     |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------|---------------------|----------------------|
| 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 (@25°C/77°F)                                                                                                                                                  | ±2% F.S.                                               |                         | –                   | –                    |
|                           | TDS Factor                                                                                                                                                             | 0.5                                                    | 0.5                     | –                   | –                    |
| EC                        | Range                                                                                                                                                                  | –                                                      | –                       | 0 to 2000 µS/cm     | 0.00 to 20.00 mS/cm  |
|                           | Resolution                                                                                                                                                             | –                                                      | –                       | 1 µS/cm             | 0.01 mS/cm           |
|                           | Accuracy (@25°C/77°F)                                                                                                                                                  | –                                                      | –                       | ±2% F.S.            |                      |
| Temperature               | Range                                                                                                                                                                  | 0.0 to 50.0°C/32.0 to 122.0°F                          |                         |                     |                      |
|                           | Resolution                                                                                                                                                             | 0.1°C / 0.1°F                                          |                         |                     |                      |
|                           | Accuracy (@25°C/77°F)                                                                                                                                                  | ±0.5°C / ±1.0°F                                        |                         |                     |                      |
| Additional Specifications | Calibration Solution                                                                                                                                                   | HI70032: 1382 ppm                                      | HI70038: 6.44 ppt       | HI70031: 1413 mS/cm | HI70030: 12.88 mS/cm |
|                           | Calibration                                                                                                                                                            | automatic, one-point                                   |                         |                     |                      |
|                           | Temperature Compensation                                                                                                                                               | automatic from 0 to 50°C (32 to 122°F)                 |                         |                     |                      |
|                           | Battery Type / Life                                                                                                                                                    | CR2032 3V Li-ion / approx. 250 hours of continuous use |                         |                     |                      |
|                           | Environment                                                                                                                                                            | 0 to 50°C (32 to 122°F); RH 100% max                   |                         |                     |                      |
|                           | Dimensions                                                                                                                                                             | 160 x 40 x 17 mm (6.3 x 1.6 x 0.7")                    |                         |                     |                      |
|                           | Weight                                                                                                                                                                 | 75 g (2.6 oz.)                                         |                         |                     |                      |
| Ordering Information      | HI98301 (DiST 1) is supplied with CR2032 battery, 1382 ppm calibration solution sachet (4), storage/protection sleeve, instruction manual, and quality certificate.    |                                                        |                         |                     |                      |
|                           | HI98302 (DiST 2) is supplied with CR2032 battery, 6.44 ppt calibration solution sachet (4), storage/protection sleeve, instruction manual, and quality certificate.    |                                                        |                         |                     |                      |
|                           | HI98303 (DiST 3) is supplied with CR2032 battery, 1413 µS/cm calibration solution sachet (4), storage/protection sleeve, instruction manual, and quality certificate.  |                                                        |                         |                     |                      |
|                           | HI98304 (DiST 4) is supplied with CR2032 battery, 12.88 mS/cm calibration solution sachet (4), storage/protection sleeve, instruction manual, and quality certificate. |                                                        |                         |                     |                      |