

# AD310-AD410

## Standard Professional Conductivity-TDS-TEMPERATURE Portable Meters

AD310 and AD410 are portable microprocessor-based instruments for measuring EC or TDS, and temperature.

The autoranging feature of the EC and TDS readings automatically sets the instrument to the scale with the highest resolution. Measurements are compensated for temperature effect automatically (ATC) or manually (MTC). The temperature compensation feature can also be disabled to measure actual conductivity or TDS.

The temperature coefficient is user selectable. The instruments also feature a measurement stability indicator.

Both models are supplied complete with A76309 conductivity probe with built-in temperature sensor and 1 m cable, batteries (4 x 1.5V AA alkaline) and instruction manual.

AD310 is supplied with calibration solution in satchets (1413  $\mu\text{S}/\text{cm}$ , 20 ml), while AD410 is supplied with calibration solution in satchets (1382 ppm, 20 ml).

|                       |        | AD310                                                                                                                                                                        | AD410                                                                                                             |
|-----------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Range                 | EC/TDS | 19.99 / 199.9 / 1999 $\mu\text{S}/\text{cm}$<br>19.99 / 199.9 mS/c                                                                                                           | 9.99 / 99.9 / 999 ppm<br>9.99 / 99.9 ppt                                                                          |
|                       | Temp   | -9.9 to 120.0°C                                                                                                                                                              | 9.9 to 120.0°C                                                                                                    |
| Resolution            | EC/TDS | 0.01 / 0.1 / 1 $\mu\text{S}/\text{cm}$<br>0.01 / 0.1 mS/cm                                                                                                                   | 0.01 / 0.1 / 1 ppm<br>0.01 / 0.1 ppt                                                                              |
|                       | Temp   | 0.1°C                                                                                                                                                                        | 0.1°C                                                                                                             |
| Accuracy              | EC/TDS | $\pm 1\%$ f.s.                                                                                                                                                               | $\pm 1\%$ f.s.                                                                                                    |
|                       | Temp   | $\pm 0.5^\circ\text{C}$                                                                                                                                                      | $\pm 0.5^\circ\text{C}$                                                                                           |
| EC/TDS Calibration    |        | Offset: 0.0 $\mu\text{S}/\text{cm}$ ;<br>Slope: 1 point with 6 memorized standards (84.0, 1413 $\mu\text{S}/\text{cm}$ ; 5.00, 12.88, 80.0, 111.8 mS/cm) or one custom value | Offset: 0.0 ppm;<br>Slope: 1 point with 4 memorized standards (800, 1382 ppm; 6.44, 40.0 ppt) or one custom value |
| Temp. Compensation    |        | automatic or manual<br>-9.9 to 120.0°C                                                                                                                                       | automatic or manual<br>-9.9 to 120.0°C                                                                            |
| Temperature           |        | Selectable Coefficient from 0.00 to 6.00%/°C                                                                                                                                 | Selectable Coefficient from 0.00 to 6.00%/°C                                                                      |
| Reference Temperature |        | Selectable at 20.0 or 25.0°C                                                                                                                                                 | Selectable at 20.0 or 25.0°C                                                                                      |

