

TetraCon 325 Conductivity Cells

Conductivity electrodes for field conductivity and salinity measurements



- Large measuring range
- Built-in temperature sensor
- Highly precise measurements
- Robust unbreakable epoxy body

Description

The TetraCon® 4-electrode conductivity cells set a new standard for conductivity measurements. In comparison with conventional measuring cells with 2 electrodes, the TetraCon® 325 offers numerous technical advantages. The electrode was designed to optimize the cell geometry providing you with the highest accuracy possible. Long-term cell constant stability is a result of high-quality abrasion-resistant graphite construction. The design also allows for a very shallow immersion depth with a virtually unbreakable robust epoxy body. Other design features mean that measurements are not affected by cable influences, polarization effects or contact with any surfaces. All TetraCon® cells come with a built-in temperature sensor to automatically compensate the output to your sample's temperature. The automatic resistance compensation feature provides you with accurate measurements even with a dirty electrode.

Applications

The TetraCon 325 Conductivity Cells are ideal for monitoring ground water, rivers, lakes, streams, swimming pools, and industrial water applications including juices, electroplating, and pharmaceuticals. With the Cond 3110 meters the cells are ideal for routine field measurements. The Cond 3210 meter raises the performance level of the cells to a point where they are recommended for highly precise control, and quality assurance including the ability to make TDS measurements. With the Cond 1970i rugged field meters the conductivity cell measurements can be controlled with a computer, stored in the 800 dataset memory, and supported using GLP requirements.

Specifications

Measuring Principle: Four-electrode measurement
Cell Constant: $0.475 \text{ cm}^{-1} \pm 1.5 \%$
Temperature Sensor: Integrated NTC 30 (30k Ω /77°F (25°C))
Measurement Range: 1uS/cm to 2S/cm
Temperature Range: 23 to +176°F (-5 to +80°C)
Maximum Allowed Overpressure: 29 psi (2 bar)
Immersion Depth: 1.4 inches min/length of cable max (36 mm min/length of cable max)
Operating Position: Any
Storage Temperature: 32 to +122°F (0 to +50°C)
Recommended Storage Method: Air
Temperature Response:
 t_{99} (99 % of indication of end value after) < 20 s
Accuracy of Temperature Sensor: $\pm 0.2 \text{ K}$
Cable Length: Varies
Cable Plug: 8 pin socket
Cable Diameter: 0.24 inches (6 mm)
Material:
Thermistor Housing: Graphite
Conductivity Electrodes: Graphite
Shaft: Epoxy
Connection head: POM
Size of Probe: 4.7 inches L x 0.6 inches Dia. (120 mm L x 15.3 mm Dia.)
Weight: 0.3 lb. (135 g) w/4.9 ft (1.5 m) of cable

Options and Accessories

TetraCon 325 Conductivity Cell

Cable length 4.9 ft (1.5 m)

TetraCon 325-3 Conductivity Cell

Cable length 9.9 ft (3 m)

TetraCon 325-6 Conductivity Cell

Cable length 19.8 ft (6 m)

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