



Features and Advantages

Fast: 95% of the reading is taken within two seconds; Final reading takes less than 30 seconds

Accurate: Better than ± 0.1 pH in continuous measurement over the entire pH range

Easy Maintenance: Remove/replace electrode from outside the reactor without entering the vessel (the liquid level in the vessel must be below the bottom of the probe and the vessel must be vented to the atmosphere)

Sturdy: Engineered for agitated reactors and tanks

Specifications

pH Range: Measures from 0 to 14 pH

Pressure Range: 150 psig to full vacuum

Temperature Range: 32 °F to 284 °F (0 °C to 140 °C)

Glass Lining: De Dietrich Universal 3009U white glass; highly acid, alkali, impact, thermal shock and abrasion resistant

Spark Test: 20,000 volts during fabrication, 6,000 volts thereafter

Electrical Resistance: Sensor - 300 megohms at 77 °F (25 °C)
Diaphragm - <20,000 megohms

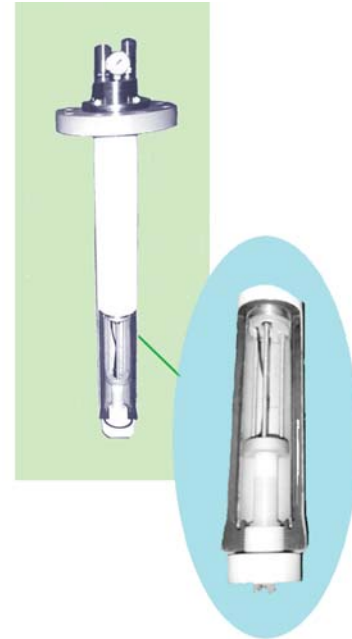
Slope: 54 – 60 mV/pH at 77 °F (25 °C)

Zero Point: pH 7, 0 mV \pm 50 mV

Temperature Compensation: 3010 ohm standard RTD, with an optional 100 ohm RTD (for use with other transmitters)

Electrode Material: Combined, solid state, silver/silver chloride non-flowing electrode with Halar® sheathing and Kalrez® O-rings provide direct measurement with no time delay.

Zero Leakage: A zero ml/hr KCl leakage rate is obtained by supplying an electrode with a wooden core, impregnated with KCl. Ions go directly from the wood through a porous PTFE barrier, then across a pH sensitive glass tip.



Options

- Power Supply - Model MTL 2441B: Repeater Power Supply (4/20 mA) with intrinsic safety barrier for Class 1, Division 1, Group A, B, C and D hazardous areas.
- Transmitter - Model TB515 10110: TBI pH Analyzer/Transmitter, two-wire, 24 VDC transmitter with integral LCD for pH and loop current readings. NEMA 4X enclosure, separate loop current and electrode adjustments, 2" pipe mounting bracket and stainless steel tag. FM approved intrinsically safe for Class 1, Division 1, Group A, B, C and D when used with approved barriers.
- Electrode Blank - Blank PTFE electrode plug to allow reactor/tank operation with the absence of an electrode.
- Probe Material - Standard probes are constructed of De Dietrich glass-lined steel, which can be substituted by common alloys.

