

## OTT-520 Electrochemical

### 4-20 mA Loop-Powered PPM O<sub>2</sub> Transmitter



**OTT-520 PPM O<sub>2</sub>** transmitter in-line mounting equipped with 316 SS sensor housing and fittings for easy and simple installation and operation, without any external sample system. Its designed is intrinsically safe when used in conjunction with **MTL-7706** safety barrier. User selectable any range from 5 PPM to 25%. Signal output is locked on the selected range. Recovery from air to 10 PPM in under 45 minutes.

Field selectable ranges, fine tune temperature compensation for accurate measurements even in environment with changing ambient conditions. User selectable digital filter for optimum signal to noise with acceptable system response time. Standard PPM O<sub>2</sub> sensor, OTT-333 ideal for oxygen measurement in inert and gaseous hydrocarbon gas streams.

**OTT-520 PPM O<sub>2</sub>** transmitter can be used in extended low operating temperature range down to -10° C (14°F) with Z series. **OTT-333Z** sensor shows excellent compatibility with gas streams containing any level of CO<sub>2</sub> gas. No routine sensor maintenance is needed

## OTT-520 Electrochemical

### 4-20 mA Loop-Powered PPM O<sub>2</sub> Transmitter

**Measurement Range:** User selectable from 0-5 PPM - 21%

**Display:** Bright 2-Line LED

**Output Lock:** 4-20 mA locked on user selectable range.

**Accuracy:** < 2% of FS at constant operating conditions

**Linearity:** +/-1% after calibration

**Temperature Compensation:** Fine tune on low PPM range forenhanced stability



**Response Time:** 90% of Step Change in <30 sec

**Repeatability:** +/-1% over all ranges

**Recommended Sample Flow Rate:** 1-2 SCFH, vent to atmosphere

**Sample System Included:** SS 316 Sensor Housing with Compressin Tube Fittings Gas Connectors

**Sensor Model:** AST-333 inert gases, AST-333Z for gases containingmore than 0.5% CO<sub>2</sub>

### Advanced Sensor Technology

- Proprietary Electrolyte Formulation and Anode Material
  - Electro-etched Smooth Cathode
- Recovery From Air to 10 PPM in under 40 Minutes
- Extended Operating Temperature Range -10°C (-4°F)
  - Z-Series sensor Compatibility with 0-100% CO<sub>2</sub>
- Fast Sensor Response, no Routine Sensor Maintenance Needed

### Key Transmitter Features

- User Selectable Range From 0-5 PPM to 25%
  - Output Locking on Selected Range
    - 4-20 mA or 1-5 VDC
  - Fine Tuned Temperature Compensation
  - Barometric Pressure Compensation
- Intrinsically Safe Design, complies with Class I Div I Group IIC

# Datasheet



## Optional Accessories/Equipment

- OTT-S100 sensor for analysis above 100 PPM
- KF-40 Flange
- Data-Logger
- Separate process display
- Replacement cells

### Annotation:

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