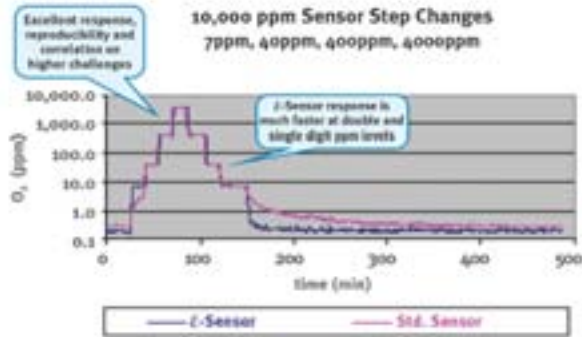


# DF-140E

## Reliable, Accurate O<sub>2</sub> Sensor in Nema 4x Enclosure

The DF-140E with the E-Sensor delivers superior oxygen analysis for harsh and hazardous areas. The DF-140E can be used in a Nema 4x enclosure for outdoor applications and with a Nema 7 remote sensor enclosure for explosive environments.

Improved Speed of Response (Figure 3)



### Configuration and Installation

Delta F provides comprehensive assistance for a broad variety of application problems including sample gases with acids, hydrocarbons, particles and other contaminants. Depending on the model, Delta F analyzers can be configured to provide a wide choice of outputs for data collection and process control systems. Most Delta F analyzers can be configured for remote operation and all can be ordered with classified area enclosures. Contact your Delta F rep for an Applications Data Sheet and pricing information.

#### Long Term Reliability

- The E-Sensor never requires rebuilding or replacement

#### Durability

- Can be used in Class 1, Division 1 or 2

#### Low Maintenance

- Little or no recalibration for the E-Sensor

#### STAB-EL™ option

- Allows measurement in the presence of Acid Gases

For more information about the DF-140E, the 100E Series or the E-Sensor, visit [www.delta-f.com](http://www.delta-f.com).

### DF-140E Specifications

#### Range

Ranges are available from 0-10 ppm to 0-25%

#### Sample Gas Compatibility

Standard Sensor – All inert and passive gases including N<sub>2</sub>, H<sub>2</sub>, CO, freons, hydrocarbons, etc.

Sensor With STAB-EL™ Option – Neutralizes trace contaminants including acids Such as CO<sub>2</sub>, H<sub>2</sub>S, NO<sub>x</sub>, SO<sub>x</sub>, etc. (Consult Delta F for concentration limits)

#### Options

Enclosures for Class 1, Div. 1&2	Flow Alarm
STAB-EL™ Acid Gas Ssystem	Three Range
CE Certification	Isolated 4-20 mADC output
Oxygen Alarms	Remote Sensor Heater
Sample Pump	

#### Accuracy

Greater of ±3% of reading or 0.5% of measurement range

#### Response Time

Responds simultaneously to O<sub>2</sub> change.  
Equilibrium time depends on specific conditions  
Typically less than 10 seconds to read 90% of a step change

#### Sample Requirements

Gas phase, non-condensing, 0 to 150°F  
Flow should be 1.0 to 3.0 SCFH at 0.2 to 1.0psig pressure

#### Misc.

19.7 cm W x 21.6 cm H x 25.4 cm D 7kg (7.75"Wx8.5"Hx10"D 15 lbs.)  
Operate between 0° and 45° C ambient (32° and 120° F)  
115 VAC or 220 VAC at 25 Watts



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