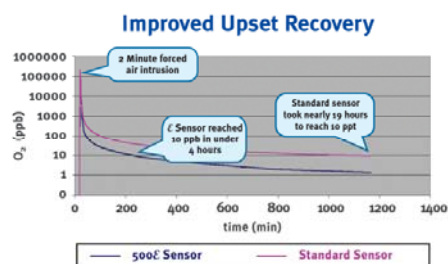


# NanoTrace DF-550E UltraTrace Oxygen Analyzer

**NanoTrace** provides a reliable Low-detection-level of 200 ppt in a compact, easy to use analyzer. The superior NanoTrace performance has been verified by a host of independent third parties such as Air Products and Chemicals Inc. Every NanoTrace is manufactured under ISO 9001/2000 control and is calibrated and operated for five weeks to ensure a fast and accurate start-up at your site.

## Superior Performance

- The low LDL provides a large “Analytical Headroom” for dependable measurements.
- Fast response provides sensitive and dependable process monitoring.
- Quick upset recovery avoids “running blind” when process problems occur (shown below is a comparison of the performance of the new E Sensor vs. the standard sensor).



## Low Maintenance

- Very low drift makes the need for frequent calibrations unnecessary.
- The zero purifier is used only for calibration and not to scrub the electrolyte as is common in other analyzers. Expensive and disruptive purifier replacements are not required.

## Selection of Configurations

- The Automatic Calibration system can be initiated at the front panel or via digital interconnect.
- The Manual Calibration system can be included for “hand carry,” portable operation.
- The Battery and Isolation Valve options enable truly portable operation.

For more information about the DF-550E NanoTrace analyzer, ask for the Delta F UltraTrace Compendium. Visit [www.delta-f.com](http://www.delta-f.com).

## DF-550E Performance

Lowest Detection Level (LDL)	200 ppt
Analyzer Resolution	100 ppt
Response Time	< 15 seconds
Accuracy (Constant Conditions)	0.5 ppb or $\pm 3\%$ of Reading
Upset Recovery	<5 min from high ppm upset
Output Range (Lowest)	0 to 20 ppb

## Specifications

Sample Pressure	15 to 25 psig
Sample Flow	1 to 3 scfh
Gas Compatibility	All inerts and passive gases including N <sub>2</sub> , He, H <sub>2</sub> , Ar, light hydrocarbons, halocarbons, etc.

## Options

Automatic Calibration System  
 Manual Calibration System  
 4 – 20 mADC Output Isolation  
 RS-232 and RS-485  
 Up to 4 Assignable Alarm Relays  
 N<sub>2</sub> Case Purge  
 Rechargeable Batteries  
 Flow Alarm



## Configuration and Installation

Delta F provides comprehensive assistance for a broad variety of application problems including measurements of semiconductor specialty gases. Depending on the model, Delta F analyzers can be configured to provide a wide choice of outputs for data collection and process control systems. Contact your Delta F representative for an Applications Data Sheet and pricing information.



Delta F Corporation  
 4 Constitution Way  
 Woburn, MA 01801-1087  
 USA

Tel: (781) 935-4600  
 Fax: (781) 938-0531

e-mail: [marketing@delta-f.com](mailto:marketing@delta-f.com)