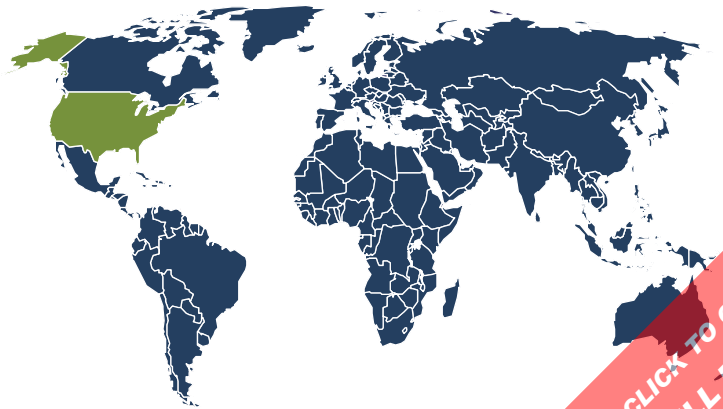




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# Chemical Sensors: United States

September 2013



## Highlights

### Industry Overview

Market Size and Trends | Product Segmentation | Market Segmentation  
International Activity and Foreign Trade | Environmental and Regulatory Issues

### Demand Forecasts

Market Environment | Product Forecasts | Market Forecasts

### Industry Structure

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## ABOUT THIS REPORT

### Scope & Method

This report forecasts US chemical sensor demand in US dollars at the manufacturers' level to 2017. Total demand is segmented by product in terms of:

- electrochemical
- optical
- semiconductor
- pellistor/catalytic bead
- other sensors such as paramagnetic, thermal conductivity and flame ionization.

Excluded from the scope of this report are sensors used in blood glucose test strips and similar disposable biosensors. Color change strips, such as those to detect pregnancy, are also excluded.

Total demand is also segmented by market as follows:

- industrial
- environmental monitoring
- medical
- defense and homeland security
- other markets such as research laboratories, public safety, and law enforcement.

To illustrate historical trends, total demand is reported for 2002, 2007, and 2012; while the various segments are reported at five-year intervals for 2007 and 2012. Forecasts emanate from the identification and analysis of pertinent statistical relationships and other historical trends/events as well as their expected progression/impact over the forecast period. Changes in quantities between reported years of a given total or segment are typically provided in terms of five-year compound annual growth rates (CAGRs). For the sake of brevity, forecasts are generally stated in smoothed CAGR-based descriptions to the forecast year, such as "demand is projected to rise 3.2% annually through 2017." The result of any particular year over that period, however, may exhibit volatility and depart from a smoothed, long-term trend, as historical data typically illustrate.

Key macroeconomic indicators are also provided at five-year intervals with CAGRs for the years corresponding to other reported figures. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the [Table of Contents](#).

## Sources

*Chemical Sensors: United States* is based on [Chemical Sensors](#), a comprehensive industry study published by The Freedonia Group in September 2013. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- The Freedonia Group Consensus Forecasts dated August 2013
- the findings of other industry studies by The Freedonia Group.

Specific sources and additional resources are listed in the [Resources](#) section of this publication for reference and to facilitate further research.

## Industry Codes

The topic of this report is related to the following industry codes:

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
333314	Optical Instrument and Lens Mfg	3679	Electronic Components, NEC
334419	Other Electronic Component Mfg		Automatic Controls for Regulation
334512	Automatic Environmental Control Mfg for Residential, Commercial, and Appliance Use	3822	Residential and Commercial Environments and Appliances
334513	Instruments and Related Products Mfg for Measuring, Displaying, and Controlling Industrial Process Variables	3823	Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products
334516	Analytical Laboratory Instrument Mfg	3826	Laboratory Analytical Instruments
		3827	Optical Instruments and Lenses

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