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About This Report

Scope & Method

This report forecasts US analytical instrument demand and shipments in US dollars at the manufacturer level to 2021. Total demand and shipments are segmented by product in terms of:

- laboratory instruments
- process control instruments
- electrical measuring equipment
- other instruments such as those for materials testing, meteorological observation, and surveying

Analytical instruments consist of devices used for scientific research and industrial processes. Excluded from the report are diagnostic and therapeutic equipment, gauges and counting devices, search and navigation equipment, commercial and household appliance controls, irradiation equipment, watches and clocks, and optical instruments and lenses. Re-exports of analytical instruments are excluded from demand figures.

To illustrate historical trends, total demand, total shipments, the various segments, and trade are provided in annual series from 2006 to 2016.

This report quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or $r^2$. The most stable data series relative to the trend carries an $r^2$ value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

Key macroeconomic indicators are also provided with quantified trends. 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

Analytical Instruments: United States (FF80013) represents the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

Analytical Instruments: United States
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About This Report

- 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
- indicator forecasts by The Freedonia Group
- the findings of other reports and 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

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<th>North American Industry Classification System</th>
<th>SIC</th>
<th>Standard Industrial Classification</th>
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<td>334513</td>
<td>Instruments and Related Products Manufacturing for Measuring, Displaying, and</td>
<td>3823</td>
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Source: US Census Bureau

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United States Census Bureau
United States Food and Drug Administration
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