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Control Technologies: United States

October 2017



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About This Report

Scope & Method

This report forecasts US control technologies demand and shipments in nominal US dollars to 2021. Total demand is segmented by product in terms of:

- general-purpose industrial controls
- special-purpose industrial controls
- relays
- industrial control parts and accessories
- process controls
- automated environmental controls.

Excluded from the scope of this report are personal computers that perform control-type functions. Also excluded are laboratory, search and navigation, and medical equipment. Re-exports of control technologies are excluded from demand and trade 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

Control Technologies: United States (FF75016) represents 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

About This Report

- 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

Table 6 | Industry Codes Related to Control Technologies

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
334512	Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use	3625	Relays and Industrial Controls
334513	Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables	3822	Automatic Controls for Regulating Residential and Commercial Environments and Appliances
335314	Relay and Industrial Control Manufacturing	3823	Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products

Source: US Census Bureau

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Resources

The Freedonia Group

Freedonia Industry Studies

Global Food Processing Machinery, September 2017
Global Construction Machinery Market, August 2017
US HVAC Market Forecasts, June 2017
World Material Handling Equipment, July 2016
World HVAC Equipment, May 2016

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Flow Control
Machine Design
Manufacturing Business Technology
Process & Control

Agencies & Associations

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IEEE Control Systems Society
Institute of Industrial & Systems Engineers
The International Society of Automation
National Electrical Manufacturers Association
United States Department of Commerce
 Bureau of Economic Analysis
 United States Census Bureau
United States International Trade Commission