

Wireless Devices in Process Manufacturing

FIVE-YEAR MARKET ANALYSIS AND TECHNOLOGY FORECAST THROUGH 2023

INDUSTRIAL INTERNET OF THINGS TO SPUR MARKET GROWTH

The prospect of adding wireless devices to the process automation architecture is compelling due to the potential business benefits and tangible operational improvements. Owner-operators are increasingly aware of the potential to apply wireless to key challenges, such as improving process performance, reliability, and efficiency; and easing regulatory compliance.

One trend that has major implications for the adoption of wireless technology is the Industrial Internet of Things (IIoT). Because wireless is a key enabling technology for connectivity, it will allow the proliferation of sensors at the device level necessary to funnel data to the IIoT.

Many initial applications for wireless devices in the process industries are focused on adding incremental points to improve control strategies or meet safety or environmental regulations. In many cases, these installations are driven by the ability to take measurements that were previously unattainable, often because the target is in a difficult-to-reach location or mobile.

As wireless device adoption accelerates, the market emphasis will move from these incremental point additions to more comprehensive wireless installations.

For more information, please visit us at www.arcweb.com/market-studies/.

STRATEGIC ISSUES

Users have embraced wireless technology in the plant but could be taking it further. This study answers key strategic questions, such as:

- How will Industrial IoT affect adoption of wireless in the plant?
- How will concerns over device power and security impact the prospects for wireless adoption?
- Will security concerns inhibit deployment of internet-connected devices??

RESEARCH FORMATS

This research is available as a Market Intelligence Workbook (Excel) and/or a concise, executive-level Market Analysis Report (PDF), with or without detailed charts.

RESEARCH FOCUS AREAS

STRATEGIC ANALYSIS

Major, Regional, and Industry Trends
Strategic Recommendations

COMPETITIVE ANALYSIS

Market Shares of the Leading Suppliers
Market Shares by Region

North America
Europe, Middle East, Africa
Asia
Latin America

Market Shares by Revenue Category
Hardware, Software, Services

Market Shares by Industry

Chemical
Electric Power Generation
Electric Power T&D
Food & Beverage
Metals
Mining
Oil & Gas
Pharmaceutical & Biotech
Pulp & Paper
Refining
Water & Wastewater

Market Shares by Device Type

Bridges/Multiplexers
Gateways
Level Transmitter/Switch
pH Transmitter
Pressure/Flow Transmitter
Remote I/O
Standalone Radios
Temperature Transmitter
Valves/Actuators

Vibration Transmitters
Wireless Access Points
Market Shares by Application
Condition Monitoring
Data Acquisition
Maintenance
Process Control
SCADA
Security
Tank Farm Monitoring
Market Shares by Network Range
Market Shares by Radio Spectrum
Market Shares by Wireless Frequency
Market Shares by Hazardous Location
Market Shares by Environmental Rating
Market Shares by Distribution Channel
Market Shares by Customer Type

MARKET FORECASTS

Total Wireless for Process Business
Shipments by Region
Shipments by Revenue Category
Shipments by Industry
Shipments by Device Type (\$, Units)
Shipments by Application
Shipments by Network Range
Shipments by Radio Spectrum
Shipments by Wireless Frequency
Shipments by Hazardous Location
Shipments by Environmental Rating
Shipments by Distribution Channel
Shipments by Customer Type

INDUSTRY PARTICIPANTS

The research identifies all relevant suppliers serving this market.

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