

Current Transducers Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

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Abstracts

Current Transducers Market Overview

The Current Transducers market is poised for significant growth between 2025 and 2030. Current transducers are vital components used for measuring electric currents, converting them into a proportional output signal. These devices are indispensable in a variety of applications including industrial automation, automotive systems, and residential energy management. With the increasing demand for electricity and the need for efficient energy management solutions, the current transducers market is projected to expand rapidly.

Market Size

As of 2025, the global current transducers market size is estimated to be approximately \$1.5 billion, with a projected growth rate of 6% - 8% CAGR from 2025 through 2030. This growth trend is primarily driven by advancements in technology and increasing investments in renewable energy systems.

Market Share & Trends Analysis Report

By Product Type

The market is segmented based on product types which include Hall Effect transducers, Rogowski coils, and others. Hall Effect transducers dominate this segment, capturing over 50% market share. The Rogowski coils are gaining traction due to their advantages in measuring large currents.

By Key Players

Key players in the Current Transducers market include:

LEM

Phoenix Contact

NK Technologies

HBK (Hottinger Baldwin Messtechnik)

Legrand

Littelfuse

CR Magnetic

Johnson Controls

AAC

Veris Industries

HOBUT

These companies are investing heavily in research and development to innovate and improve their product offerings.

By Process

The market can be divided into several processes, mainly divided into electrical measurement, monitoring and control systems, and power quality management. The electrical measurement process is expected to hold the largest share, accounting for nearly 42% of the total market revenue by 2030.

By Application

Industrial

The industrial sector is the largest application segment for current transducers, anticipated to represent 55% of the market share by 2030. The surge in industrial automation and smart factory initiatives contributes to this growth.

Automotive

The automotive segment is also poised for growth, with an estimated CAGR of 5% - 10%, driven by the rise of electric vehicles and hybrid systems.

Residential & Commercial

In the residential and commercial sectors, the adoption of smart meters and energy-efficient devices is stimulating demand, with a projected share of around 25% by 2030.

By End-Use

Current transducers find applications across diverse end-use sectors such as power generation, steel, and paper manufacturing. The electrical and electronics segment is expected to dominate this sector, with a share of approximately 40% in 2025.

By Region

The Current Transducers market is geographically classified into North America, Europe, Asia Pacific (APAC), Latin America, and the Middle East & Africa (MEA).

North America: This region is projected to lead the market with a share of around 35%, mainly due to the presence of key manufacturers and the increasing adoption of renewable energy systems.

Europe: Expected to hold a significant share of about 30% due to stringent energy efficiency regulations and advancements in smart grids.

Asia Pacific: This region is forecasted to witness the highest growth rate, estimated at 7% - 9% CAGR from 2025 - 2030, driven by rapid industrialization and growing investments in infrastructure.

Latin America and MEA: These regions are expected to grow modestly, with a combined share of around 15%.

Market News on Policy and Companies

Recent governmental initiatives aimed at boosting energy efficiency have greatly influenced the Current Transducers market. For instance, the U.S. Department of Energy has implemented new regulations that mandate higher energy standards, directly increasing the demand for efficient monitoring and control systems.

Additionally, companies are constantly updating their product portfolios to cater to market demands. For instance, LEM recently launched a new range of current sensing devices designed for high-voltage applications. Furthermore, Phoenix Contact has introduced innovative products focused on IoT capabilities, allowing real-time monitoring of energy consumption.

Segment Forecasts 2025 - 2030

The Current Transducers market is expected to maintain a robust growth trajectory from 2025 to 2030. Segment forecasts indicate that:

The Hall Effect transducer segment will continue to dominate the product market, growing at a CAGR of 6% - 8%.

Industrial applications will remain the largest segment; however, the automotive market is expected to show the fastest growth, driven by electric vehicle adoption.

North America and APAC are set to witness the most significant growth, accounting for nearly 70% of the global market share by the end of the forecast period.

Conclusion

Overall, the Current Transducers market is on a positive growth path driven by technological advancements, regulatory policies, and the increasing need for energy efficiency. Companies are expected to focus on strategic partnerships and product innovations to capitalize on the emerging opportunities in this dynamic market landscape.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

- 3.1 Research Scope
- 3.2 Research Sources
 - 3.2.1 Data Sources
 - 3.2.2 Assumptions
- 3.3 Research Method

CHAPTER 4 MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

- 6.1 Upstream/Suppliers Analysis
- 6.2 Current Transducers Analysis
 - 6.2.1 Technology Analysis
 - 6.2.2 Cost Analysis
 - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

- 7.1 Latest News
- 7.2 Merger and Acquisition
- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 TRADING ANALYSIS

- 8.1 Export of Current Transducers by Region
- 8.2 Import of Current Transducers by Region
- 8.3 Balance of Trade

CHAPTER 9 HISTORICAL AND FORECAST CURRENT TRANSDUCERS MARKET IN NORTH AMERICA (2020-2030)

- 9.1 Current Transducers Market Size
- 9.2 Current Transducers Demand by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Type Segmentation and Price
- 9.5 Key Countries Analysis
 - 9.5.1 United States
 - 9.5.2 Canada
 - 9.5.3 Mexico

CHAPTER 10 HISTORICAL AND FORECAST CURRENT TRANSDUCERS MARKET IN SOUTH AMERICA (2020-2030)

- 10.1 Current Transducers Market Size
- 10.2 Current Transducers Demand by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Type Segmentation and Price
- 10.5 Key Countries Analysis
 - 10.5.1 Brazil
 - 10.5.2 Argentina
 - 10.5.3 Chile
 - 10.5.4 Peru

CHAPTER 11 HISTORICAL AND FORECAST CURRENT TRANSDUCERS MARKET IN ASIA & PACIFIC (2020-2030)

- 11.1 Current Transducers Market Size
- 11.2 Current Transducers Demand by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Type Segmentation and Price
- 11.5 Key Countries Analysis
 - 11.5.1 China
 - 11.5.2 India
 - 11.5.3 Japan
 - 11.5.4 South Korea
 - 11.5.5 Southeast Asia
 - 11.5.6 Australia

CHAPTER 12 HISTORICAL AND FORECAST CURRENT TRANSDUCERS MARKET IN EUROPE (2020-2030)

- 12.1 Current Transducers Market Size
- 12.2 Current Transducers Demand by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Type Segmentation and Price
- 12.5 Key Countries Analysis
 - 12.5.1 Germany
 - 12.5.2 France
 - 12.5.3 United Kingdom
 - 12.5.4 Italy
 - 12.5.5 Spain
 - 12.5.6 Belgium
 - 12.5.7 Netherlands
 - 12.5.8 Austria
 - 12.5.9 Poland
 - 12.5.10 Russia

CHAPTER 13 HISTORICAL AND FORECAST CURRENT TRANSDUCERS MARKET IN MEA (2020-2030)

- 13.1 Current Transducers Market Size
- 13.2 Current Transducers Demand by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Type Segmentation and Price
- 13.5 Key Countries Analysis

- 13.5.1 Egypt
- 13.5.2 Israel
- 13.5.3 South Africa
- 13.5.4 Gulf Cooperation Council Countries
- 13.5.5 Turkey

CHAPTER 14 SUMMARY FOR GLOBAL CURRENT TRANSDUCERS MARKET (2020-2025)

- 14.1 Current Transducers Market Size
- 14.2 Current Transducers Demand by End Use
- 14.3 Competition by Players/Suppliers
- 14.4 Type Segmentation and Price

CHAPTER 15 GLOBAL CURRENT TRANSDUCERS MARKET FORECAST (2025-2030)

- 15.1 Current Transducers Market Size Forecast
- 15.2 Current Transducers Demand Forecast
- 15.3 Competition by Players/Suppliers
- 15.4 Type Segmentation and Price Forecast

CHAPTER 16 ANALYSIS OF GLOBAL KEY VENDORS

- 16.1 LEM
 - 16.1.1 Company Profile
 - 16.1.2 Main Business and Current Transducers Information
 - 16.1.3 SWOT Analysis of LEM
 - 16.1.4 LEM Current Transducers Sales, Revenue, Price and Gross Margin
(2020-2025)
- 16.2 Phoenix Contact
 - 16.2.1 Company Profile
 - 16.2.2 Main Business and Current Transducers Information
 - 16.2.3 SWOT Analysis of Phoenix Contact
 - 16.2.4 Phoenix Contact Current Transducers Sales, Revenue, Price and Gross Margin
(2020-2025)
- 16.3 NK Technologies
 - 16.3.1 Company Profile
 - 16.3.2 Main Business and Current Transducers Information

16.3.3 SWOT Analysis of NK Technologies	
16.3.4 NK Technologies Current Transducers Sales, Revenue, Price and Gross Margin (2020-2025)	
16.4 HBK	
16.4.1 Company Profile	
16.4.2 Main Business and Current Transducers Information	
16.4.3 SWOT Analysis of HBK	
16.4.4 HBK Current Transducers Sales, Revenue, Price and Gross Margin (2020-2025)	
16.5 Legrand	
16.5.1 Company Profile	
16.5.2 Main Business and Current Transducers Information	
16.5.3 SWOT Analysis of Legrand	
16.5.4 Legrand Current Transducers Sales, Revenue, Price and Gross Margin (2020-2025)	
16.6 Littelfuse	
16.6.1 Company Profile	
16.6.2 Main Business and Current Transducers Information	
16.6.3 SWOT Analysis of Littelfuse	
16.6.4 Littelfuse Current Transducers Sales, Revenue, Price and Gross Margin (2020-2025)	
16.7 CR Magnetic	
16.7.1 Company Profile	
16.7.2 Main Business and Current Transducers Information	
16.7.3 SWOT Analysis of CR Magnetic	
16.7.4 CR Magnetic Current Transducers Sales, Revenue, Price and Gross Margin (2020-2025)	
Please ask for sample pages for full companies list	
Tables and Figures	
Table Abbreviation and Acronyms List	
Table Research Scope of Current Transducers Report	
Table Data Sources of Current Transducers Report	
Table Major Assumptions of Current Transducers Report	
Figure Market Size Estimated Method	
Figure Major Forecasting Factors	
Figure Current Transducers Picture	
Table Current Transducers Classification	
Table Current Transducers Applications List	
Table Drivers of Current Transducers Market	

Table Restraints of Current Transducers Market
Table Opportunities of Current Transducers Market
Table Threats of Current Transducers Market
Table Covid-19 Impact For Current Transducers Market
Table Raw Materials Suppliers List
Table Different Production Methods of Current Transducers
Table Cost Structure Analysis of Current Transducers
Table Key End Users List
Table Latest News of Current Transducers Market
Table Merger and Acquisition List
Table Planned/Future Project of Current Transducers Market
Table Policy of Current Transducers Market
Table 2020-2030 Regional Export of Current Transducers
Table 2020-2030 Regional Import of Current Transducers
Table 2020-2030 Regional Trade Balance
Figure 2020-2030 Regional Trade Balance
Table 2020-2030 North America Current Transducers Market Size and Market Volume List
Figure 2020-2030 North America Current Transducers Market Size and CAGR
Figure 2020-2030 North America Current Transducers Market Volume and CAGR
Table 2020-2030 North America Current Transducers Demand List by Application
Table 2020-2025 North America Current Transducers Key Players Sales List
Table 2020-2025 North America Current Transducers Key Players Market Share List
Table 2020-2030 North America Current Transducers Demand List by Type
Table 2020-2025 North America Current Transducers Price List by Type
Table 2020-2030 United States Current Transducers Market Size and Market Volume List
Table 2020-2030 United States Current Transducers Import & Export List
Table 2020-2030 Canada Current Transducers Market Size and Market Volume List
Table 2020-2030 Canada Current Transducers Import & Export List
Table 2020-2030 Mexico Current Transducers Market Size and Market Volume List
Table 2020-2030 Mexico Current Transducers Import & Export List
Table 2020-2030 South America Current Transducers Market Size and Market Volume List
Figure 2020-2030 South America Current Transducers Market Size and CAGR
Figure 2020-2030 South America Current Transducers Market Volume and CAGR
Table 2020-2030 South America Current Transducers Demand List by Application
Table 2020-2025 South America Current Transducers Key Players Sales List
Table 2020-2025 South America Current Transducers Key Players Market Share List

Table 2020-2030 South America Current Transducers Demand List by Type
Table 2020-2025 South America Current Transducers Price List by Type
Table 2020-2030 Brazil Current Transducers Market Size and Market Volume List
Table 2020-2030 Brazil Current Transducers Import & Export List
Table 2020-2030 Argentina Current Transducers Market Size and Market Volume List
Table 2020-2030 Argentina Current Transducers Import & Export List
Table 2020-2030 Chile Current Transducers Market Size and Market Volume List
Table 2020-2030 Chile Current Transducers Import & Export List
Table 2020-2030 Peru Current Transducers Market Size and Market Volume List
Table 2020-2030 Peru Current Transducers Import & Export List
Table 2020-2030 Asia & Pacific Current Transducers Market Size and Market Volume List
Figure 2020-2030 Asia & Pacific Current Transducers Market Size and CAGR
Figure 2020-2030 Asia & Pacific Current Transducers Market Volume and CAGR
Table 2020-2030 Asia & Pacific Current Transducers Demand List by Application
Table 2020-2025 Asia & Pacific Current Transducers Key Players Sales List
Table 2020-2025 Asia & Pacific Current Transducers Key Players Market Share List
Table 2020-2030 Asia & Pacific Current Transducers Demand List by Type
Table 2020-2025 Asia & Pacific Current Transducers Price List by Type
Table 2020-2030 China Current Transducers Market Size and Market Volume List
Table 2020-2030 China Current Transducers Import & Export List
Table 2020-2030 India Current Transducers Market Size and Market Volume List
Table 2020-2030 India Current Transducers Import & Export List
Table 2020-2030 Japan Current Transducers Market Size and Market Volume List
Table 2020-2030 Japan Current Transducers Import & Export List
Table 2020-2030 South Korea Current Transducers Market Size and Market Volume List
Table 2020-2030 South Korea Current Transducers Import & Export List
Table 2020-2030 Southeast Asia Current Transducers Market Size List
Table 2020-2030 Southeast Asia Current Transducers Market Volume List
Table 2020-2030 Southeast Asia Current Transducers Import List
Table 2020-2030 Southeast Asia Current Transducers Export List
Table 2020-2030 Australia Current Transducers Market Size and Market Volume List
Table 2020-2030 Australia Current Transducers Import & Export List
Table 2020-2030 Europe Current Transducers Market Size and Market Volume List
Figure 2020-2030 Europe Current Transducers Market Size and CAGR
Figure 2020-2030 Europe Current Transducers Market Volume and CAGR
Table 2020-2030 Europe Current Transducers Demand List by Application
Table 2020-2025 Europe Current Transducers Key Players Sales List

Table 2020-2025 Europe Current Transducers Key Players Market Share List
Table 2020-2030 Europe Current Transducers Demand List by Type
Table 2020-2025 Europe Current Transducers Price List by Type
Table 2020-2030 Germany Current Transducers Market Size and Market Volume List
Table 2020-2030 Germany Current Transducers Import & Export List
Table 2020-2030 France Current Transducers Market Size and Market Volume List
Table 2020-2030 France Current Transducers Import & Export List
Table 2020-2030 United Kingdom Current Transducers Market Size and Market Volume List
Table 2020-2030 United Kingdom Current Transducers Import & Export List
Table 2020-2030 Italy Current Transducers Market Size and Market Volume List
Table 2020-2030 Italy Current Transducers Import & Export List
Table 2020-2030 Spain Current Transducers Market Size and Market Volume List
Table 2020-2030 Spain Current Transducers Import & Export List
Table 2020-2030 Belgium Current Transducers Market Size and Market Volume List
Table 2020-2030 Belgium Current Transducers Import & Export List
Table 2020-2030 Netherlands Current Transducers Market Size and Market Volume List
Table 2020-2030 Netherlands Current Transducers Import & Export List
Table 2020-2030 Austria Current Transducers Market Size and Market Volume List
Table 2020-2030 Austria Current Transducers Import & Export List
Table 2020-2030 Poland Current Transducers Market Size and Market Volume List
Table 2020-2030 Poland Current Transducers Import & Export List
Table 2020-2030 Russia Current Transducers Market Size and Market Volume List
Table 2020-2030 Russia Current Transducers Import & Export List
Table 2020-2030 MEA Current Transducers Market Size and Market Volume List
Figure 2020-2030 MEA Current Transducers Market Size and CAGR
Figure 2020-2030 MEA Current Transducers Market Volume and CAGR
Table 2020-2030 MEA Current Transducers Demand List by Application
Table 2020-2025 MEA Current Transducers Key Players Sales List
Table 2020-2025 MEA Current Transducers Key Players Market Share List
Table 2020-2030 MEA Current Transducers Demand List by Type
Table 2020-2025 MEA Current Transducers Price List by Type
Table 2020-2030 Egypt Current Transducers Market Size and Market Volume List
Table 2020-2030 Egypt Current Transducers Import & Export List
Table 2020-2030 Israel Current Transducers Market Size and Market Volume List
Table 2020-2030 Israel Current Transducers Import & Export List
Table 2020-2030 South Africa Current Transducers Market Size and Market Volume List

Table 2020-2030 South Africa Current Transducers Import & Export List
Table 2020-2030 Gulf Cooperation Council Countries Current Transducers Market Size and Market Volume List
Table 2020-2030 Gulf Cooperation Council Countries Current Transducers Import & Export List
Table 2020-2030 Turkey Current Transducers Market Size and Market Volume List
Table 2020-2030 Turkey Current Transducers Import & Export List
Table 2020-2025 Global Current Transducers Market Size List by Region
Table 2020-2025 Global Current Transducers Market Size Share List by Region
Table 2020-2025 Global Current Transducers Market Volume List by Region
Table 2020-2025 Global Current Transducers Market Volume Share List by Region
Table 2020-2025 Global Current Transducers Demand List by Application
Table 2020-2025 Global Current Transducers Demand Market Share List by Application
Table 2020-2025 Global Current Transducers Key Vendors Sales List
Table 2020-2025 Global Current Transducers Key Vendors Sales Share List
Figure 2020-2025 Global Current Transducers Market Volume and Growth Rate
Table 2020-2025 Global Current Transducers Key Vendors Revenue List
Figure 2020-2025 Global Current Transducers Market Size and Growth Rate
Table 2020-2025 Global Current Transducers Key Vendors Revenue Share List
Table 2020-2025 Global Current Transducers Demand List by Type
Table 2020-2025 Global Current Transducers Demand Market Share List by Type
Table 2020-2025 Regional Current Transducers Price List
Table 2025-2030 Global Current Transducers Market Size List by Region
Table 2025-2030 Global Current Transducers Market Size Share List by Region
Table 2025-2030 Global Current Transducers Market Volume List by Region
Table 2025-2030 Global Current Transducers Market Volume Share List by Region
Table 2025-2030 Global Current Transducers Demand List by Application
Table 2025-2030 Global Current Transducers Demand Market Share List by Application
Table 2025-2030 Global Current Transducers Key Vendors Sales List
Table 2025-2030 Global Current Transducers Key Vendors Sales Share List
Figure 2025-2030 Global Current Transducers Market Volume and Growth Rate
Table 2025-2030 Global Current Transducers Key Vendors Revenue List
Figure 2025-2030 Global Current Transducers Market Size and Growth Rate
Table 2025-2030 Global Current Transducers Key Vendors Revenue Share List
Table 2025-2030 Global Current Transducers Demand List by Type
Table 2025-2030 Global Current Transducers Demand Market Share List by Type
Table 2025-2030 Current Transducers Regional Price List
Table LEM Information
Table SWOT Analysis of LEM

Table 2020-2025 LEM Current Transducers Sale Volume Price Cost Revenue
Figure 2020-2025 LEM Current Transducers Sale Volume and Growth Rate
Figure 2020-2025 LEM Current Transducers Market Share
Table Phoenix Contact Information
Table SWOT Analysis of Phoenix Contact
Table 2020-2025 Phoenix Contact Current Transducers Sale Volume Price Cost Revenue
Figure 2020-2025 Phoenix Contact Current Transducers Sale Volume and Growth Rate
Figure 2020-2025 Phoenix Contact Current Transducers Market Share
Table NK Technologies Information
Table SWOT Analysis of NK Technologies
Table 2020-2025 NK Technologies Current Transducers Sale Volume Price Cost Revenue
Figure 2020-2025 NK Technologies Current Transducers Sale Volume and Growth Rate
Figure 2020-2025 NK Technologies Current Transducers Market Share
Table HBK Information
Table SWOT Analysis of HBK
Table 2020-2025 HBK Current Transducers Sale Volume Price Cost Revenue
Figure 2020-2025 HBK Current Transducers Sale Volume and Growth Rate
Figure 2020-2025 HBK Current Transducers Market Share
Table Legrand Information
Table SWOT Analysis of Legrand
Table 2020-2025 Legrand Current Transducers Sale Volume Price Cost Revenue
Figure 2020-2025 Legrand Current Transducers Sale Volume and Growth Rate
Figure 2020-2025 Legrand Current Transducers Market Share
Table Littelfuse Information
Table SWOT Analysis of Littelfuse
Table 2020-2025 Littelfuse Current Transducers Sale Volume Price Cost Revenue
Figure 2020-2025 Littelfuse Current Transducers Sale Volume and Growth Rate
Figure 2020-2025 Littelfuse Current Transducers Market Share
Table CR Magnetic Information
Table SWOT Analysis of CR Magnetic
Table 2020-2025 CR Magnetic Current Transducers Sale Volume Price Cost Revenue
Figure 2020-2025 CR Magnetic Current Transducers Sale Volume and Growth Rate
Figure 2020-2025 CR Magnetic Current Transducers Market Share

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