

Global Fluxgate Current Sensor Market Growth 2025-2031

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Abstracts

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The global FIB-SEM System market size is predicted to grow from US\$ 644 million in 2025 to US\$ 910 million in 2031; it is expected to grow at a CAGR of 5.9% from 2025 to 2031.

The FIB-SEM system is an electron microscope system that integrates focused electron beams and scanning ion beams. Focused ion beams can be used for micro processing of samples, scanning electron beams can be used for micro imaging and 'two-dimensional' characterization analysis of sample surface morphology, and real-time observation of the FIB processing process. Therefore, the FIB-SEM system can achieve fixed-point etching, deposition, cross-sectional cutting, TEM electron microscopy sample preparation, and micro/nano device preparation of samples Circuit repair, 3D structural characterization, etc.

Global key players of FIB-SEM System include Thermo Fisher Scientific Hitachi and Zeiss, etc. The top three players hold a share over 85%. Japan is the largest market. In terms of product type, Ga Ion Source is the largest segment, occupied for a share of 95%, and in terms of application, Material Science has a share about 40 percent.

Analysis of FIB-SEM system market drivers

1. Demand for semiconductor technology iteration

Advanced process node promotion:

3nm/2nm chip process requires atomic-level defect detection, and FIB-SEM supports nanoscale circuit editing and material composition analysis (such as EDS/EBSD integration) to help improve yield.

3D packaging technology (such as Chiplet) relies on FIB-SEM for through-silicon via (TSV) cross-sectional analysis and interface defect positioning.

Semiconductor material innovation:

The microstructure research of third-generation semiconductors (GaN, SiC) and two-dimensional materials (graphene) requires FIB-SEM to achieve atomic-level resolution imaging (

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Fluxgate Current Sensor Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Fluxgate Current Sensor by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Fluxgate Current Sensor by Country/Region, 2020, 2024 & 2031
- 2.2 Fluxgate Current Sensor Segment by Type
 - 2.2.1 Accuracy: 2.2.2 Accuracy: 0.1%-0.5%
 - 2.2.3 Accuracy: > 0.5%
- 2.3 Fluxgate Current Sensor Sales by Type
 - 2.3.1 Global Fluxgate Current Sensor Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Fluxgate Current Sensor Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Fluxgate Current Sensor Sale Price by Type (2020-2025)
- 2.4 Fluxgate Current Sensor Segment by Application
 - 2.4.1 Automation
 - 2.4.2 Automotive
 - 2.4.3 Energy and Power
 - 2.4.4 Medical Equipment
 - 2.4.5 Rail Transit
 - 2.4.6 Others
- 2.5 Fluxgate Current Sensor Sales by Application
 - 2.5.1 Global Fluxgate Current Sensor Sale Market Share by Application (2020-2025)
 - 2.5.2 Global Fluxgate Current Sensor Revenue and Market Share by Application

(2020-2025)

2.5.3 Global Fluxgate Current Sensor Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Fluxgate Current Sensor Breakdown Data by Company

3.1.1 Global Fluxgate Current Sensor Annual Sales by Company (2020-2025)

3.1.2 Global Fluxgate Current Sensor Sales Market Share by Company (2020-2025)

3.2 Global Fluxgate Current Sensor Annual Revenue by Company (2020-2025)

3.2.1 Global Fluxgate Current Sensor Revenue by Company (2020-2025)

3.2.2 Global Fluxgate Current Sensor Revenue Market Share by Company

(2020-2025)

3.3 Global Fluxgate Current Sensor Sale Price by Company

3.4 Key Manufacturers Fluxgate Current Sensor Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Fluxgate Current Sensor Product Location Distribution

3.4.2 Players Fluxgate Current Sensor Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR FLUXGATE CURRENT SENSOR BY GEOGRAPHIC REGION

4.1 World Historic Fluxgate Current Sensor Market Size by Geographic Region (2020-2025)

4.1.1 Global Fluxgate Current Sensor Annual Sales by Geographic Region

(2020-2025)

4.1.2 Global Fluxgate Current Sensor Annual Revenue by Geographic Region

(2020-2025)

4.2 World Historic Fluxgate Current Sensor Market Size by Country/Region (2020-2025)

4.2.1 Global Fluxgate Current Sensor Annual Sales by Country/Region (2020-2025)

4.2.2 Global Fluxgate Current Sensor Annual Revenue by Country/Region

(2020-2025)

4.3 Americas Fluxgate Current Sensor Sales Growth

4.4 APAC Fluxgate Current Sensor Sales Growth

4.5 Europe Fluxgate Current Sensor Sales Growth

4.6 Middle East & Africa Fluxgate Current Sensor Sales Growth

5 AMERICAS

5.1 Americas Fluxgate Current Sensor Sales by Country

5.1.1 Americas Fluxgate Current Sensor Sales by Country (2020-2025)

5.1.2 Americas Fluxgate Current Sensor Revenue by Country (2020-2025)

5.2 Americas Fluxgate Current Sensor Sales by Type (2020-2025)

5.3 Americas Fluxgate Current Sensor Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Fluxgate Current Sensor Sales by Region

6.1.1 APAC Fluxgate Current Sensor Sales by Region (2020-2025)

6.1.2 APAC Fluxgate Current Sensor Revenue by Region (2020-2025)

6.2 APAC Fluxgate Current Sensor Sales by Type (2020-2025)

6.3 APAC Fluxgate Current Sensor Sales by Application (2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Fluxgate Current Sensor by Country

7.1.1 Europe Fluxgate Current Sensor Sales by Country (2020-2025)

7.1.2 Europe Fluxgate Current Sensor Revenue by Country (2020-2025)

7.2 Europe Fluxgate Current Sensor Sales by Type (2020-2025)

7.3 Europe Fluxgate Current Sensor Sales by Application (2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Fluxgate Current Sensor by Country

8.1.1 Middle East & Africa Fluxgate Current Sensor Sales by Country (2020-2025)

8.1.2 Middle East & Africa Fluxgate Current Sensor Revenue by Country (2020-2025)

8.2 Middle East & Africa Fluxgate Current Sensor Sales by Type (2020-2025)

8.3 Middle East & Africa Fluxgate Current Sensor Sales by Application (2020-2025)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Fluxgate Current Sensor

10.3 Manufacturing Process Analysis of Fluxgate Current Sensor

10.4 Industry Chain Structure of Fluxgate Current Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Fluxgate Current Sensor Distributors

11.3 Fluxgate Current Sensor Customer

12 WORLD FORECAST REVIEW FOR FLUXGATE CURRENT SENSOR BY GEOGRAPHIC REGION

- 12.1 Global Fluxgate Current Sensor Market Size Forecast by Region
 - 12.1.1 Global Fluxgate Current Sensor Forecast by Region (2026-2031)
 - 12.1.2 Global Fluxgate Current Sensor Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)
- 12.5 Middle East & Africa Forecast by Country (2026-2031)
- 12.6 Global Fluxgate Current Sensor Forecast by Type (2026-2031)
- 12.7 Global Fluxgate Current Sensor Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

- 13.1 Kohshin Electric
 - 13.1.1 Kohshin Electric Company Information
 - 13.1.2 Kohshin Electric Fluxgate Current Sensor Product Portfolios and Specifications
 - 13.1.3 Kohshin Electric Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.1.4 Kohshin Electric Main Business Overview
 - 13.1.5 Kohshin Electric Latest Developments
- 13.2 HONGFA
 - 13.2.1 HONGFA Company Information
 - 13.2.2 HONGFA Fluxgate Current Sensor Product Portfolios and Specifications
 - 13.2.3 HONGFA Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.2.4 HONGFA Main Business Overview
 - 13.2.5 HONGFA Latest Developments
- 13.3 Keli Sensing Technology
 - 13.3.1 Keli Sensing Technology Company Information
 - 13.3.2 Keli Sensing Technology Fluxgate Current Sensor Product Portfolios and Specifications
 - 13.3.3 Keli Sensing Technology Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.3.4 Keli Sensing Technology Main Business Overview
 - 13.3.5 Keli Sensing Technology Latest Developments
- 13.4 Luksens Technologie GmbH
 - 13.4.1 Luksens Technologie GmbH Company Information
 - 13.4.2 Luksens Technologie GmbH Fluxgate Current Sensor Product Portfolios and

Specifications

13.4.3 Luksens Technologie GmbH Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 Luksens Technologie GmbH Main Business Overview

13.4.5 Luksens Technologie GmbH Latest Developments

13.5 LEM International SA

13.5.1 LEM International SA Company Information

13.5.2 LEM International SA Fluxgate Current Sensor Product Portfolios and Specifications

13.5.3 LEM International SA Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 LEM International SA Main Business Overview

13.5.5 LEM International SA Latest Developments

13.6 DANISENSE

13.6.1 DANISENSE Company Information

13.6.2 DANISENSE Fluxgate Current Sensor Product Portfolios and Specifications

13.6.3 DANISENSE Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 DANISENSE Main Business Overview

13.6.5 DANISENSE Latest Developments

13.7 Honeywell

13.7.1 Honeywell Company Information

13.7.2 Honeywell Fluxgate Current Sensor Product Portfolios and Specifications

13.7.3 Honeywell Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 Honeywell Main Business Overview

13.7.5 Honeywell Latest Developments

13.8 TAMURA

13.8.1 TAMURA Company Information

13.8.2 TAMURA Fluxgate Current Sensor Product Portfolios and Specifications

13.8.3 TAMURA Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 TAMURA Main Business Overview

13.8.5 TAMURA Latest Developments

13.9 KEMET

13.9.1 KEMET Company Information

13.9.2 KEMET Fluxgate Current Sensor Product Portfolios and Specifications

13.9.3 KEMET Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

- 13.9.4 KEMET Main Business Overview
- 13.9.5 KEMET Latest Developments
- 13.10 HBK
 - 13.10.1 HBK Company Information
 - 13.10.2 HBK Fluxgate Current Sensor Product Portfolios and Specifications
 - 13.10.3 HBK Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.10.4 HBK Main Business Overview
 - 13.10.5 HBK Latest Developments
- 13.11 Chenyang Technologies
 - 13.11.1 Chenyang Technologies Company Information
 - 13.11.2 Chenyang Technologies Fluxgate Current Sensor Product Portfolios and Specifications
 - 13.11.3 Chenyang Technologies Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.11.4 Chenyang Technologies Main Business Overview
 - 13.11.5 Chenyang Technologies Latest Developments
- 13.12 Sinomags Technology
 - 13.12.1 Sinomags Technology Company Information
 - 13.12.2 Sinomags Technology Fluxgate Current Sensor Product Portfolios and Specifications
 - 13.12.3 Sinomags Technology Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.12.4 Sinomags Technology Main Business Overview
 - 13.12.5 Sinomags Technology Latest Developments
- 13.13 Verivolt LLC
 - 13.13.1 Verivolt LLC Company Information
 - 13.13.2 Verivolt LLC Fluxgate Current Sensor Product Portfolios and Specifications
 - 13.13.3 Verivolt LLC Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.13.4 Verivolt LLC Main Business Overview
 - 13.13.5 Verivolt LLC Latest Developments
- 13.14 Hunan Yinhe Electric Co., Ltd.
 - 13.14.1 Hunan Yinhe Electric Co., Ltd. Company Information
 - 13.14.2 Hunan Yinhe Electric Co., Ltd. Fluxgate Current Sensor Product Portfolios and Specifications
 - 13.14.3 Hunan Yinhe Electric Co., Ltd. Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.14.4 Hunan Yinhe Electric Co., Ltd. Main Business Overview

13.14.5 Hunan Yinhe Electric Co., Ltd. Latest Developments

13.15 HIOKI E.E.

13.15.1 HIOKI E.E. Company Information

13.15.2 HIOKI E.E. Fluxgate Current Sensor Product Portfolios and Specifications

13.15.3 HIOKI E.E. Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.15.4 HIOKI E.E. Main Business Overview

13.15.5 HIOKI E.E. Latest Developments

13.16 Beijing TransFar Electronics Group Co., Ltd

13.16.1 Beijing TransFar Electronics Group Co., Ltd Company Information

13.16.2 Beijing TransFar Electronics Group Co., Ltd Fluxgate Current Sensor Product Portfolios and Specifications

13.16.3 Beijing TransFar Electronics Group Co., Ltd Fluxgate Current Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.16.4 Beijing TransFar Electronics Group Co., Ltd Main Business Overview

13.16.5 Beijing TransFar Electronics Group Co., Ltd Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Fluxgate Current Sensor Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Fluxgate Current Sensor Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Accuracy: Table 4. Major Players of Accuracy: 0.1%-0.5%

Table 5. Major Players of Accuracy: > 0.5%

Table 6. Global Fluxgate Current Sensor Sales by Type (2020-2025) & (K Units)

Table 7. Global Fluxgate Current Sensor Sales Market Share by Type (2020-2025)

Table 8. Global Fluxgate Current Sensor Revenue by Type (2020-2025) & (\$ million)

Table 9. Global Fluxgate Current Sensor Revenue Market Share by Type (2020-2025)

Table 10. Global Fluxgate Current Sensor Sale Price by Type (2020-2025) & (US\$/Unit)

Table 11. Global Fluxgate Current Sensor Sale by Application (2020-2025) & (K Units)

Table 12. Global Fluxgate Current Sensor Sale Market Share by Application (2020-2025)

Table 13. Global Fluxgate Current Sensor Revenue by Application (2020-2025) & (\$ million)

Table 14. Global Fluxgate Current Sensor Revenue Market Share by Application (2020-2025)

Table 15. Global Fluxgate Current Sensor Sale Price by Application (2020-2025) & (US\$/Unit)

Table 16. Global Fluxgate Current Sensor Sales by Company (2020-2025) & (K Units)

Table 17. Global Fluxgate Current Sensor Sales Market Share by Company (2020-2025)

Table 18. Global Fluxgate Current Sensor Revenue by Company (2020-2025) & (\$ millions)

Table 19. Global Fluxgate Current Sensor Revenue Market Share by Company (2020-2025)

Table 20. Global Fluxgate Current Sensor Sale Price by Company (2020-2025) & (US\$/Unit)

Table 21. Key Manufacturers Fluxgate Current Sensor Producing Area Distribution and Sales Area

Table 22. Players Fluxgate Current Sensor Products Offered

Table 23. Fluxgate Current Sensor Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Fluxgate Current Sensor Sales by Geographic Region (2020-2025) & (K Units)

Table 27. Global Fluxgate Current Sensor Sales Market Share Geographic Region (2020-2025)

Table 28. Global Fluxgate Current Sensor Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 29. Global Fluxgate Current Sensor Revenue Market Share by Geographic Region (2020-2025)

Table 30. Global Fluxgate Current Sensor Sales by Country/Region (2020-2025) & (K Units)

Table 31. Global Fluxgate Current Sensor Sales Market Share by Country/Region (2020-2025)

Table 32. Global Fluxgate Current Sensor Revenue by Country/Region (2020-2025) & (\$ millions)

Table 33. Global Fluxgate Current Sensor Revenue Market Share by Country/Region (2020-2025)

Table 34. Americas Fluxgate Current Sensor Sales by Country (2020-2025) & (K Units)

Table 35. Americas Fluxgate Current Sensor Sales Market Share by Country (2020-2025)

Table 36. Americas Fluxgate Current Sensor Revenue by Country (2020-2025) & (\$ millions)

Table 37. Americas Fluxgate Current Sensor Sales by Type (2020-2025) & (K Units)

Table 38. Americas Fluxgate Current Sensor Sales by Application (2020-2025) & (K Units)

Table 39. APAC Fluxgate Current Sensor Sales by Region (2020-2025) & (K Units)

Table 40. APAC Fluxgate Current Sensor Sales Market Share by Region (2020-2025)

Table 41. APAC Fluxgate Current Sensor Revenue by Region (2020-2025) & (\$ millions)

Table 42. APAC Fluxgate Current Sensor Sales by Type (2020-2025) & (K Units)

Table 43. APAC Fluxgate Current Sensor Sales by Application (2020-2025) & (K Units)

Table 44. Europe Fluxgate Current Sensor Sales by Country (2020-2025) & (K Units)

Table 45. Europe Fluxgate Current Sensor Revenue by Country (2020-2025) & (\$ millions)

Table 46. Europe Fluxgate Current Sensor Sales by Type (2020-2025) & (K Units)

Table 47. Europe Fluxgate Current Sensor Sales by Application (2020-2025) & (K Units)

Table 48. Middle East & Africa Fluxgate Current Sensor Sales by Country (2020-2025) & (K Units)

Table 49. Middle East & Africa Fluxgate Current Sensor Revenue Market Share by

Country (2020-2025)

Table 50. Middle East & Africa Fluxgate Current Sensor Sales by Type (2020-2025) & (K Units)

Table 51. Middle East & Africa Fluxgate Current Sensor Sales by Application (2020-2025) & (K Units)

Table 52. Key Market Drivers & Growth Opportunities of Fluxgate Current Sensor

Table 53. Key Market Challenges & Risks of Fluxgate Current Sensor

Table 54. Key Industry Trends of Fluxgate Current Sensor

Table 55. Fluxgate Current Sensor Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. Fluxgate Current Sensor Distributors List

Table 58. Fluxgate Current Sensor Customer List

Table 59. Global Fluxgate Current Sensor Sales Forecast by Region (2026-2031) & (K Units)

Table 60. Global Fluxgate Current Sensor Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 61. Americas Fluxgate Current Sensor Sales Forecast by Country (2026-2031) & (K Units)

Table 62. Americas Fluxgate Current Sensor Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 63. APAC Fluxgate Current Sensor Sales Forecast by Region (2026-2031) & (K Units)

Table 64. APAC Fluxgate Current Sensor Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 65. Europe Fluxgate Current Sensor Sales Forecast by Country (2026-2031) & (K Units)

Table 66. Europe Fluxgate Current Sensor Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 67. Middle East & Africa Fluxgate Current Sensor Sales Forecast by Country (2026-2031) & (K Units)

Table 68. Middle East & Africa Fluxgate Current Sensor Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 69. Global Fluxgate Current Sensor Sales Forecast by Type (2026-2031) & (K Units)

Table 70. Global Fluxgate Current Sensor Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 71. Global Fluxgate Current Sensor Sales Forecast by Application (2026-2031) & (K Units)

Table 72. Global Fluxgate Current Sensor Revenue Forecast by Application

(2026-2031) & (\$ millions)

Table 73. Kohshin Electric Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors

Table 74. Kohshin Electric Fluxgate Current Sensor Product Portfolios and Specifications

Table 75. Kohshin Electric Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 76. Kohshin Electric Main Business

Table 77. Kohshin Electric Latest Developments

Table 78. HONGFA Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors

Table 79. HONGFA Fluxgate Current Sensor Product Portfolios and Specifications

Table 80. HONGFA Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 81. HONGFA Main Business

Table 82. HONGFA Latest Developments

Table 83. Keli Sensing Technology Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors

Table 84. Keli Sensing Technology Fluxgate Current Sensor Product Portfolios and Specifications

Table 85. Keli Sensing Technology Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 86. Keli Sensing Technology Main Business

Table 87. Keli Sensing Technology Latest Developments

Table 88. Luksens Technologie GmbH Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors

Table 89. Luksens Technologie GmbH Fluxgate Current Sensor Product Portfolios and Specifications

Table 90. Luksens Technologie GmbH Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 91. Luksens Technologie GmbH Main Business

Table 92. Luksens Technologie GmbH Latest Developments

Table 93. LEM International SA Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors

Table 94. LEM International SA Fluxgate Current Sensor Product Portfolios and Specifications

Table 95. LEM International SA Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 96. LEM International SA Main Business

Table 97. LEM International SA Latest Developments
Table 98. DANISENSE Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors
Table 99. DANISENSE Fluxgate Current Sensor Product Portfolios and Specifications
Table 100. DANISENSE Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
Table 101. DANISENSE Main Business
Table 102. DANISENSE Latest Developments
Table 103. Honeywell Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors
Table 104. Honeywell Fluxgate Current Sensor Product Portfolios and Specifications
Table 105. Honeywell Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
Table 106. Honeywell Main Business
Table 107. Honeywell Latest Developments
Table 108. TAMURA Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors
Table 109. TAMURA Fluxgate Current Sensor Product Portfolios and Specifications
Table 110. TAMURA Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
Table 111. TAMURA Main Business
Table 112. TAMURA Latest Developments
Table 113. KEMET Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors
Table 114. KEMET Fluxgate Current Sensor Product Portfolios and Specifications
Table 115. KEMET Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
Table 116. KEMET Main Business
Table 117. KEMET Latest Developments
Table 118. HBK Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors
Table 119. HBK Fluxgate Current Sensor Product Portfolios and Specifications
Table 120. HBK Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
Table 121. HBK Main Business
Table 122. HBK Latest Developments
Table 123. Chenyang Technologies Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors
Table 124. Chenyang Technologies Fluxgate Current Sensor Product Portfolios and

Specifications

Table 125. Chenyang Technologies Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 126. Chenyang Technologies Main Business

Table 127. Chenyang Technologies Latest Developments

Table 128. Sinomags Technology Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors

Table 129. Sinomags Technology Fluxgate Current Sensor Product Portfolios and Specifications

Table 130. Sinomags Technology Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 131. Sinomags Technology Main Business

Table 132. Sinomags Technology Latest Developments

Table 133. Verivolt LLC Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors

Table 134. Verivolt LLC Fluxgate Current Sensor Product Portfolios and Specifications

Table 135. Verivolt LLC Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 136. Verivolt LLC Main Business

Table 137. Verivolt LLC Latest Developments

Table 138. Hunan Yinhe Electric Co., Ltd. Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors

Table 139. Hunan Yinhe Electric Co., Ltd. Fluxgate Current Sensor Product Portfolios and Specifications

Table 140. Hunan Yinhe Electric Co., Ltd. Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 141. Hunan Yinhe Electric Co., Ltd. Main Business

Table 142. Hunan Yinhe Electric Co., Ltd. Latest Developments

Table 143. HIOKI E.E. Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors

Table 144. HIOKI E.E. Fluxgate Current Sensor Product Portfolios and Specifications

Table 145. HIOKI E.E. Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 146. HIOKI E.E. Main Business

Table 147. HIOKI E.E. Latest Developments

Table 148. Beijing TransFar Electronics Group Co., Ltd Basic Information, Fluxgate Current Sensor Manufacturing Base, Sales Area and Its Competitors

Table 149. Beijing TransFar Electronics Group Co., Ltd Fluxgate Current Sensor Product Portfolios and Specifications

Table 150. Beijing TransFar Electronics Group Co., Ltd Fluxgate Current Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 151. Beijing TransFar Electronics Group Co., Ltd Main Business

Table 152. Beijing TransFar Electronics Group Co., Ltd Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Fluxgate Current Sensor
- Figure 2. Fluxgate Current Sensor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Fluxgate Current Sensor Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global Fluxgate Current Sensor Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Fluxgate Current Sensor Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Fluxgate Current Sensor Sales Market Share by Country/Region (2024)
- Figure 10. Fluxgate Current Sensor Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Accuracy: 0.1%-0.5%
- Figure 12. Product Picture of Accuracy: 0.1%-0.5%
- Figure 13. Product Picture of Accuracy: > 0.5%
- Figure 14. Global Fluxgate Current Sensor Sales Market Share by Type in 2025
- Figure 15. Global Fluxgate Current Sensor Revenue Market Share by Type (2020-2025)
- Figure 16. Fluxgate Current Sensor Consumed in Automation
- Figure 17. Global Fluxgate Current Sensor Market: Automation (2020-2025) & (K Units)
- Figure 18. Fluxgate Current Sensor Consumed in Automotive
- Figure 19. Global Fluxgate Current Sensor Market: Automotive (2020-2025) & (K Units)
- Figure 20. Fluxgate Current Sensor Consumed in Energy and Power
- Figure 21. Global Fluxgate Current Sensor Market: Energy and Power (2020-2025) & (K Units)
- Figure 22. Fluxgate Current Sensor Consumed in Medical Equipment
- Figure 23. Global Fluxgate Current Sensor Market: Medical Equipment (2020-2025) & (K Units)
- Figure 24. Fluxgate Current Sensor Consumed in Rail Transit
- Figure 25. Global Fluxgate Current Sensor Market: Rail Transit (2020-2025) & (K Units)
- Figure 26. Fluxgate Current Sensor Consumed in Others
- Figure 27. Global Fluxgate Current Sensor Market: Others (2020-2025) & (K Units)
- Figure 28. Global Fluxgate Current Sensor Sale Market Share by Application (2024)
- Figure 29. Global Fluxgate Current Sensor Revenue Market Share by Application in 2025
- Figure 30. Fluxgate Current Sensor Sales by Company in 2025 (K Units)

Figure 31. Global Fluxgate Current Sensor Sales Market Share by Company in 2025

Figure 32. Fluxgate Current Sensor Revenue by Company in 2025 (\$ millions)

Figure 33. Global Fluxgate Current Sensor Revenue Market Share by Company in 2025

Figure 34. Global Fluxgate Current Sensor Sales Market Share by Geographic Region (2020-2025)

Figure 35. Global Fluxgate Current Sensor Revenue Market Share by Geographic Region in 2025

Figure 36. Americas Fluxgate Current Sensor Sales 2020-2025 (K Units)

Figure 37. Americas Fluxgate Current Sensor Revenue 2020-2025 (\$ millions)

Figure 38. APAC Fluxgate Current Sensor Sales 2020-2025 (K Units)

Figure 39. APAC Fluxgate Current Sensor Revenue 2020-2025 (\$ millions)

Figure 40. Europe Fluxgate Current Sensor Sales 2020-2025 (K Units)

Figure 41. Europe Fluxgate Current Sensor Revenue 2020-2025 (\$ millions)

Figure 42. Middle East & Africa Fluxgate Current Sensor Sales 2020-2025 (K Units)

Figure 43. Middle East & Africa Fluxgate Current Sensor Revenue 2020-2025 (\$ millions)

Figure 44. Americas Fluxgate Current Sensor Sales Market Share by Country in 2025

Figure 45. Americas Fluxgate Current Sensor Revenue Market Share by Country (2020-2025)

Figure 46. Americas Fluxgate Current Sensor Sales Market Share by Type (2020-2025)

Figure 47. Americas Fluxgate Current Sensor Sales Market Share by Application (2020-2025)

Figure 48. United States Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 49. Canada Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 50. Mexico Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 51. Brazil Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 52. APAC Fluxgate Current Sensor Sales Market Share by Region in 2025

Figure 53. APAC Fluxgate Current Sensor Revenue Market Share by Region (2020-2025)

Figure 54. APAC Fluxgate Current Sensor Sales Market Share by Type (2020-2025)

Figure 55. APAC Fluxgate Current Sensor Sales Market Share by Application (2020-2025)

Figure 56. China Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 57. Japan Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 58. South Korea Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 59. Southeast Asia Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 60. India Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 61. Australia Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 62. China Taiwan Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 63. Europe Fluxgate Current Sensor Sales Market Share by Country in 2025

Figure 64. Europe Fluxgate Current Sensor Revenue Market Share by Country (2020-2025)

Figure 65. Europe Fluxgate Current Sensor Sales Market Share by Type (2020-2025)

Figure 66. Europe Fluxgate Current Sensor Sales Market Share by Application (2020-2025)

Figure 67. Germany Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 68. France Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 69. UK Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 70. Italy Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 71. Russia Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 72. Middle East & Africa Fluxgate Current Sensor Sales Market Share by Country (2020-2025)

Figure 73. Middle East & Africa Fluxgate Current Sensor Sales Market Share by Type (2020-2025)

Figure 74. Middle East & Africa Fluxgate Current Sensor Sales Market Share by Application (2020-2025)

Figure 75. Egypt Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 76. South Africa Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 77. Israel Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 78. Turkey Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 79. GCC Countries Fluxgate Current Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 80. Manufacturing Cost Structure Analysis of Fluxgate Current Sensor in 2025

Figure 81. Manufacturing Process Analysis of Fluxgate Current Sensor

Figure 82. Industry Chain Structure of Fluxgate Current Sensor

Figure 83. Channels of Distribution

Figure 84. Global Fluxgate Current Sensor Sales Market Forecast by Region (2026-2031)

Figure 85. Global Fluxgate Current Sensor Revenue Market Share Forecast by Region (2026-2031)

Figure 86. Global Fluxgate Current Sensor Sales Market Share Forecast by Type (2026-2031)

Figure 87. Global Fluxgate Current Sensor Revenue Market Share Forecast by Type

(2026-2031)

Figure 88. Global Fluxgate Current Sensor Sales Market Share Forecast by Application (2026-2031)

Figure 89. Global Fluxgate Current Sensor Revenue Market Share Forecast by Application (2026-2031)

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