

# **Magnetic Field Sensors Market By Type (SQUID Sensors, Hall Effect Sensors, MEMS based Magnetic Field Sensors, Magnetoresistive Sensors, Fluxgate Sensors, Others), By Range (less than 1 Microgauss (Low-Field Sensors), 1 Microgauss –10 Gauss (Earth Field Sensors), more than 10 Gauss (Bias Magnetic Field Sensors)) By End User (Automotive, Consumer Electronics, Industrial, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2032**

<https://marketpublishers.com/r/M958EEA17D8EEN.html>

Date: June 2024

Pages: 250

Price: US\$ 2,493.00 (Single User License)

ID: M958EEA17D8EEN

## **Abstracts**

### **Magnetic Field Sensors Market**

The magnetic field sensors market was valued at \$6.1 billion in 2023 and is projected to reach \$11.3 billion by 2032, growing at a CAGR of 7.2% from 2024 to 2032.

A magnetic field sensor is a device that measures the magnetic field in an environment, by converting it into electrical signals. Several industrial and scientific applications make use of the sensor, including positioning, object detection, anti-lock braking systems, and position tracking. To serve diverse purposes, there are various types of magnetic field sensors, including hall effect sensors, anisotropic magneto-resistive sensors, magneto-resistive element sensors, and fluxgate sensors.

Increase in need for sensor integration among different automotive applications such as electric vehicles (EVs), advanced driver assistance systems (ADAS), and autonomous driving systems (ADS) systems is a key driver of the magnetic field sensors market. In addition, robotics is an ever-evolving sector which drives the demand for magnetic field

sensors. In recent times, flexible magnetic field nanosensors are acquiring traction in the wearable electronics industry due to their innovative attributes such as miniaturization, low power consumption, and energy harvesting abilities.

However, alternative devices such as optical and inertial sensors offer robust competition to magnetic field sensors due to their high accuracy, quick response time, and resistance to magnetic field. Furthermore, magnetic field sensors do not exhibit the capability of detecting small magnetic fields. To combat this issue, a group of researchers from Ben-Gurion University and Bar-Ilan University developed magneto-resistive sensors in July 2023. These sensors have the ability to detect magnetic fields as small as 200 pico-Tesla. Simple design, cutting-edge sensitivity, and noteworthy flexibility are the key attributes of the sensor contributing to its popularity.

## Segment Review

The magnetic field sensors market is segmented into type, range, end user, and region. On the basis of type, the market is divided into SQUID sensors, hall effect sensors, MEMS based magnetic field sensors, magnetoresistive sensors, fluxgate sensors, and others. As per range, it is classified into less than 1 microgauss (low-field sensors), 1 microgauss –10 gauss (earth field sensors), and more than 10 gauss (bias magnetic field sensors). Depending on end user, it is categorized into automotive, consumer electronics, industrial, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

On the basis of type, the hall effect sensors segment held the highest market share in 2023.

As per range, the 1 micro-gauss –10 gauss segment acquired high stakes in 2023.

Depending on end user, the automotive segment was the largest shareholder in 2023.

Region wise, Asia-Pacific was the highest revenue generator in 2023.

## Competition Analysis

The major players operating in the global magnetic field sensors market include Analog Devices Inc., Texas Instruments Inc., NXP Semiconductors NV, Sensata Technologies

Inc., Honeywell International Inc., Vishay Intertechnology Inc., Microchip Technology Inc., Asahi Kasei Corporation, Sanken Electric Co., Ltd, and Infineon Technologies AG. These players have adopted various key developmental strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the market.

Additional benefits you will get with this purchase are:

Quarterly Update and\* (only available with a corporate license, on listed price)

5 additional Company Profile of client Choice pre- or Post-purchase, as a free update.

Free Upcoming Version on the Purchase of Five and Enterprise User License.

16 analyst hours of support\* (post-purchase, if you find additional data requirements upon review of the report, you may receive support amounting to 16 analyst hours to solve questions, and post-sale queries)

15% Free Customization\* (in case the scope or segment of the report does not match your requirements, 15% is equivalent to 3 working days of free work, applicable once)

Free data Pack on the Five and Enterprise User License. (Excel version of the report)

Free Updated report if the report is 6-12 months old or older.

24-hour priority response\*

Free Industry updates and white papers.

Possible Customization with this report (with additional cost and timeline, please talk to the sales executive to know more)

Regulatory Guidelines

## SWOT Analysis

### Key Market Segments

#### By Type

SQUID Sensors

Hall Effect Sensors

MEMS based Magnetic Field Sensors

Magnetoresistive Sensors

Fluxgate Sensors

Others

#### By Range

less than 1 Microgauss (Low-Field Sensors)

1 Microgauss –10 Gauss (Earth Field Sensors)

more than 10 Gauss (Bias Magnetic Field Sensors)

#### By End User

Automotive

Consumer Electronics

Industrial

Others

## By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Analog Devices Inc.

Texas Instruments Inc.,

NXP Semiconductors NV

Sensata Technologies Inc,

Honeywell International Inc.,

Vishay Intertechnology Inc.

Microchip Technology Inc.

Asahi Kasei Corporation

Sanken Electric Co., Ltd

Infineon Technologies AG

## Contents

### **CHAPTER 1: INTRODUCTION**

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
  - 1.4.1. Primary Research
  - 1.4.2. Secondary Research
  - 1.4.3. Analyst Tools and Models

### **CHAPTER 2: EXECUTIVE SUMMARY**

- 2.1. CXO Perspective

### **CHAPTER 3: MARKET LANDSCAPE**

- 3.1. Market Definition and Scope
- 3.2. Key Findings
  - 3.2.1. Top Investment Pockets
  - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
  - 3.3.1. Bargaining Power of Suppliers
  - 3.3.2. Threat of New Entrants
  - 3.3.3. Threat of Substitutes
  - 3.3.4. Competitive Rivalry
  - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
  - 3.4.1. Drivers
  - 3.4.2. Restraints
  - 3.4.3. Opportunities

### **CHAPTER 4: AC REGULATED POWER MARKET, BY TYPE**

- 4.1. Market Overview
  - 4.1.1 Market Size and Forecast, By Type
- 4.2. Single-phase
  - 4.2.1. Key Market Trends, Growth Factors and Opportunities

- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.3. Three-phase
  - 4.3.1. Key Market Trends, Growth Factors and Opportunities
  - 4.3.2. Market Size and Forecast, By Region
  - 4.3.3. Market Share Analysis, By Country
- 4.4. Others
  - 4.4.1. Key Market Trends, Growth Factors and Opportunities
  - 4.4.2. Market Size and Forecast, By Region
  - 4.4.3. Market Share Analysis, By Country

## **CHAPTER 5: AC REGULATED POWER MARKET, BY APPLICATION**

- 5.1. Market Overview
  - 5.1.1 Market Size and Forecast, By Application
- 5.2. Data Centers
  - 5.2.1. Key Market Trends, Growth Factors and Opportunities
  - 5.2.2. Market Size and Forecast, By Region
  - 5.2.3. Market Share Analysis, By Country
- 5.3. Healthcare Facilities
  - 5.3.1. Key Market Trends, Growth Factors and Opportunities
  - 5.3.2. Market Size and Forecast, By Region
  - 5.3.3. Market Share Analysis, By Country
- 5.4. Industrial Control Systems
  - 5.4.1. Key Market Trends, Growth Factors and Opportunities
  - 5.4.2. Market Size and Forecast, By Region
  - 5.4.3. Market Share Analysis, By Country
- 5.5. offices
  - 5.5.1. Key Market Trends, Growth Factors and Opportunities
  - 5.5.2. Market Size and Forecast, By Region
  - 5.5.3. Market Share Analysis, By Country
- 5.6. Others
  - 5.6.1. Key Market Trends, Growth Factors and Opportunities
  - 5.6.2. Market Size and Forecast, By Region
  - 5.6.3. Market Share Analysis, By Country

## **CHAPTER 6: AC REGULATED POWER MARKET, BY REGION**

- 6.1. Market Overview



- 6.1.1 Market Size and Forecast, By Region
- 6.2. North America
  - 6.2.1. Key Market Trends and Opportunities
  - 6.2.2. Market Size and Forecast, By Type
  - 6.2.3. Market Size and Forecast, By Application
  - 6.2.4. Market Size and Forecast, By Country
  - 6.2.5. U.S. AC Regulated Power Market
    - 6.2.5.1. Market Size and Forecast, By Type
    - 6.2.5.2. Market Size and Forecast, By Application
  - 6.2.6. Canada AC Regulated Power Market
    - 6.2.6.1. Market Size and Forecast, By Type
    - 6.2.6.2. Market Size and Forecast, By Application
  - 6.2.7. Mexico AC Regulated Power Market
    - 6.2.7.1. Market Size and Forecast, By Type
    - 6.2.7.2. Market Size and Forecast, By Application
- 6.3. Europe
  - 6.3.1. Key Market Trends and Opportunities
  - 6.3.2. Market Size and Forecast, By Type
  - 6.3.3. Market Size and Forecast, By Application
  - 6.3.4. Market Size and Forecast, By Country
  - 6.3.5. Germany AC Regulated Power Market
    - 6.3.5.1. Market Size and Forecast, By Type
    - 6.3.5.2. Market Size and Forecast, By Application
  - 6.3.6. UK AC Regulated Power Market
    - 6.3.6.1. Market Size and Forecast, By Type
    - 6.3.6.2. Market Size and Forecast, By Application
  - 6.3.7. France AC Regulated Power Market
    - 6.3.7.1. Market Size and Forecast, By Type
    - 6.3.7.2. Market Size and Forecast, By Application
  - 6.3.8. Spain AC Regulated Power Market
    - 6.3.8.1. Market Size and Forecast, By Type
    - 6.3.8.2. Market Size and Forecast, By Application
  - 6.3.9. Italy AC Regulated Power Market
    - 6.3.9.1. Market Size and Forecast, By Type
    - 6.3.9.2. Market Size and Forecast, By Application
  - 6.3.10. Rest of Europe AC Regulated Power Market
    - 6.3.10.1. Market Size and Forecast, By Type
    - 6.3.10.2. Market Size and Forecast, By Application
- 6.4. Asia-Pacific

- 6.4.1. Key Market Trends and Opportunities
- 6.4.2. Market Size and Forecast, By Type
- 6.4.3. Market Size and Forecast, By Application
- 6.4.4. Market Size and Forecast, By Country
- 6.4.5. China AC Regulated Power Market
  - 6.4.5.1. Market Size and Forecast, By Type
  - 6.4.5.2. Market Size and Forecast, By Application
- 6.4.6. India AC Regulated Power Market
  - 6.4.6.1. Market Size and Forecast, By Type
  - 6.4.6.2. Market Size and Forecast, By Application
- 6.4.7. Japan AC Regulated Power Market
  - 6.4.7.1. Market Size and Forecast, By Type
  - 6.4.7.2. Market Size and Forecast, By Application
- 6.4.8. South Korea AC Regulated Power Market
  - 6.4.8.1. Market Size and Forecast, By Type
  - 6.4.8.2. Market Size and Forecast, By Application
- 6.4.9. Australia AC Regulated Power Market
  - 6.4.9.1. Market Size and Forecast, By Type
  - 6.4.9.2. Market Size and Forecast, By Application
- 6.4.10. Rest of Asia-Pacific AC Regulated Power Market
  - 6.4.10.1. Market Size and Forecast, By Type
  - 6.4.10.2. Market Size and Forecast, By Application
- 6.5. LAMEA
  - 6.5.1. Key Market Trends and Opportunities
  - 6.5.2. Market Size and Forecast, By Type
  - 6.5.3. Market Size and Forecast, By Application
  - 6.5.4. Market Size and Forecast, By Country
  - 6.5.5. Brazil AC Regulated Power Market
    - 6.5.5.1. Market Size and Forecast, By Type
    - 6.5.5.2. Market Size and Forecast, By Application
  - 6.5.6. Saudi Arabia AC Regulated Power Market
    - 6.5.6.1. Market Size and Forecast, By Type
    - 6.5.6.2. Market Size and Forecast, By Application
  - 6.5.7. South Africa AC Regulated Power Market
    - 6.5.7.1. Market Size and Forecast, By Type
    - 6.5.7.2. Market Size and Forecast, By Application
  - 6.5.8. Rest of LAMEA AC Regulated Power Market
    - 6.5.8.1. Market Size and Forecast, By Type
    - 6.5.8.2. Market Size and Forecast, By Application

## **CHAPTER 7: COMPETITIVE LANDSCAPE**

- 7.1. Introduction
- 7.2. Top Winning Strategies
- 7.3. Product Mapping of Top 10 Player
- 7.4. Competitive Dashboard
- 7.5. Competitive Heatmap
- 7.6. Top Player Positioning, 2023

## **CHAPTER 8: COMPANY PROFILES**

- 8.1. Delixi Electric
  - 8.1.1. Company Overview
  - 8.1.2. Key Executives
  - 8.1.3. Company Snapshot
  - 8.1.4. Operating Business Segments
  - 8.1.5. Product Portfolio
  - 8.1.6. Business Performance
  - 8.1.7. Key Strategic Moves and Developments
- 8.2. AC Power Corp.
  - 8.2.1. Company Overview
  - 8.2.2. Key Executives
  - 8.2.3. Company Snapshot
  - 8.2.4. Operating Business Segments
  - 8.2.5. Product Portfolio
  - 8.2.6. Business Performance
  - 8.2.7. Key Strategic Moves and Developments
- 8.3. YINGJIAO Electrical
  - 8.3.1. Company Overview
  - 8.3.2. Key Executives
  - 8.3.3. Company Snapshot
  - 8.3.4. Operating Business Segments
  - 8.3.5. Product Portfolio
  - 8.3.6. Business Performance
  - 8.3.7. Key Strategic Moves and Developments
- 8.4. Trystar
  - 8.4.1. Company Overview
  - 8.4.2. Key Executives

- 8.4.3. Company Snapshot
- 8.4.4. Operating Business Segments
- 8.4.5. Product Portfolio
- 8.4.6. Business Performance
- 8.4.7. Key Strategic Moves and Developments
- 8.5. Schneider Electric
  - 8.5.1. Company Overview
  - 8.5.2. Key Executives
  - 8.5.3. Company Snapshot
  - 8.5.4. Operating Business Segments
  - 8.5.5. Product Portfolio
  - 8.5.6. Business Performance
  - 8.5.7. Key Strategic Moves and Developments
- 8.6. Tesca
  - 8.6.1. Company Overview
  - 8.6.2. Key Executives
  - 8.6.3. Company Snapshot
  - 8.6.4. Operating Business Segments
  - 8.6.5. Product Portfolio
  - 8.6.6. Business Performance
  - 8.6.7. Key Strategic Moves and Developments
- 8.7. Acopian Technical Company
  - 8.7.1. Company Overview
  - 8.7.2. Key Executives
  - 8.7.3. Company Snapshot
  - 8.7.4. Operating Business Segments
  - 8.7.5. Product Portfolio
  - 8.7.6. Business Performance
  - 8.7.7. Key Strategic Moves and Developments
- 8.8. Powertron India Private Limited
  - 8.8.1. Company Overview
  - 8.8.2. Key Executives
  - 8.8.3. Company Snapshot
  - 8.8.4. Operating Business Segments
  - 8.8.5. Product Portfolio
  - 8.8.6. Business Performance
  - 8.8.7. Key Strategic Moves and Developments
- 8.9. Wavelength Electronics
  - 8.9.1. Company Overview

- 8.9.2. Key Executives
- 8.9.3. Company Snapshot
- 8.9.4. Operating Business Segments
- 8.9.5. Product Portfolio
- 8.9.6. Business Performance
- 8.9.7. Key Strategic Moves and Developments
- 8.10. K-PAS Instronic
  - 8.10.1. Company Overview
  - 8.10.2. Key Executives
  - 8.10.3. Company Snapshot
  - 8.10.4. Operating Business Segments
  - 8.10.5. Product Portfolio
  - 8.10.6. Business Performance
  - 8.10.7. Key Strategic Moves and Developments

## I would like to order

Product name: Magnetic Field Sensors Market By Type (SQUID Sensors, Hall Effect Sensors, MEMS based Magnetic Field Sensors, Magnetoresistive Sensors, Fluxgate Sensors, Others), By Range (less than 1 Microgauss (Low-Field Sensors), 1 Microgauss –10 Gauss (Earth Field Sensors), more than 10 Gauss (Bias Magnetic Field Sensors)) By End User (Automotive, Consumer Electronics, Industrial, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2032

Product link: <https://marketpublishers.com/r/M958EEA17D8EEN.html>

Price: US\$ 2,493.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M958EEA17D8EEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms

& Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970