

Corrosion Monitoring Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Type (Intrusive Techniques, Non-Intrusive Techniques), By Technique (Corrosion Coupons, Electrical resistance, Linear Polarization Resistance, Galvanic, Ultrasonic Thickness Measurement), By End-User (Oil & Gas, Chemical, Manufacturing), By Region, By Competition, 2020-2030F

<https://marketpublishers.com/r/C37B3564833FEN.html>

Date: May 2025

Pages: 180

Price: US\$ 4,500.00 (Single User License)

ID: C37B3564833FEN

Abstracts

Market Overview

The Corrosion Monitoring Market was valued at USD 4.89 Billion in 2024 and is projected to reach USD 8.97 Billion by 2030, growing at a CAGR of 10.48% during the forecast period. This market involves the development and deployment of technologies and services that monitor corrosion in infrastructure and industrial equipment, playing a crucial role in asset protection, operational safety, and regulatory compliance. Corrosion monitoring systems are widely used in industries such as oil & gas, petrochemicals, power generation, water treatment, and marine operations to prevent equipment failures, reduce maintenance costs, and extend the life cycle of critical assets. As industries face increased regulatory pressure and seek digital solutions for predictive maintenance, the demand for smart, real-time, and IoT-enabled corrosion monitoring tools is expanding rapidly across global markets.

Key Market Drivers

Stringent Government Regulations and Industry Standards for Safety and

Environmental Protection

The market is significantly driven by stringent regulations that mandate safe operating conditions, environmental protection, and structural integrity across industries like oil & gas, power generation, and marine. Authorities such as the EPA, OSHA, and international agencies like IMO and ECHA require continuous corrosion monitoring and control to prevent hazardous incidents, environmental spills, and structural failures. These regulations encourage the use of advanced corrosion monitoring systems that provide early detection and actionable insights to avoid costly downtime and legal liabilities. Additionally, compliance with global standards such as NACE MR0175 and API RP 571 is prompting companies to adopt reliable and standardized monitoring solutions. The growing demand for safety audits, risk mitigation, and sustainability practices further accelerates the adoption of corrosion monitoring technologies.

Key Market Challenges

High Implementation and Operational Costs

The adoption of corrosion monitoring systems faces a significant barrier in terms of high initial investment and ongoing operational costs. Advanced systems, particularly those offering real-time data and remote monitoring, involve costly equipment, installation, and software integration. SMEs, in particular, may find it difficult to allocate capital for such investments, especially in price-sensitive sectors. Maintenance of sophisticated monitoring devices and the need for skilled technicians further increase the total cost of ownership. Additionally, installations in remote or offshore environments introduce logistical complexities and elevate deployment costs, limiting market penetration among smaller operators and in developing regions.

Key Market Trends

Integration of Smart Sensors and IoT in Corrosion Monitoring Systems

A key trend transforming the corrosion monitoring market is the integration of smart sensors and IoT technologies that enable continuous, real-time monitoring of corrosion conditions. These systems collect high-frequency data and transmit it to cloud-based platforms where predictive analytics and AI models assess risk and suggest maintenance strategies. This trend is driving a shift from reactive maintenance to predictive and condition-based maintenance, especially in sectors like oil & gas, marine, and industrial manufacturing. IoT-enabled systems enhance safety, reduce operational

costs, and support compliance through automated data logging and reporting. Emerging technologies such as 5G and edge computing are also improving the responsiveness and reliability of these systems, making them more accessible and effective for remote and offshore applications.

Key Market Players

Honeywell International Inc.

Emerson Electric Co.

General Electric Company

Rohrback Cosasco Systems, Inc.

Intertek Group plc

SGS Soci  t   G  n  rale de Surveillance SA

Tinker & Rasor, Inc

Applied Corrosion Monitoring, Inc.

Buckleys (UVRAL) Limited

Icorr Technologies Limited

Report Scope:

In this report, the Global Corrosion Monitoring Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Corrosion Monitoring Market, By Type:

Intrusive Techniques

Non-Intrusive Techniques

Corrosion Monitoring Market, By Technique:

Corrosion Coupons

Electrical Resistance

Linear Polarization Resistance

Galvanic

Ultrasonic Thickness Measurement

Corrosion Monitoring Market, By End-User:

Oil & Gas

Chemical

Manufacturing

Corrosion Monitoring Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Corrosion Monitoring Market.

Available Customizations:

Global Corrosion Monitoring Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional Market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
- 1.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. VOICE OF CUSTOMER

5. GLOBAL CORROSION MONITORING MARKET OUTLOOK

- 5.1. Market Size & Forecast

- 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Intrusive Techniques, Non-Intrusive Techniques)
 - 5.2.2. By Technique (Corrosion Coupons, Electrical resistance, Linear Polarization Resistance, Galvanic, Ultrasonic Thickness Measurement)
 - 5.2.3. By End-User (Oil & Gas, Chemical, Manufacturing)
 - 5.2.4. By Region
- 5.3. By Company (2024)
- 5.4. Market Map

6. NORTH AMERICA CORROSION MONITORING MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Type
 - 6.2.2. By Technique
 - 6.2.3. By End-User
 - 6.2.4. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Corrosion Monitoring Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Type
 - 6.3.1.2.2. By Technique
 - 6.3.1.2.3. By End-User
 - 6.3.2. Canada Corrosion Monitoring Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Type
 - 6.3.2.2.2. By Technique
 - 6.3.2.2.3. By End-User
 - 6.3.3. Mexico Corrosion Monitoring Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Type

6.3.3.2.2. By Technique

6.3.3.2.3. By End-User

7. EUROPE CORROSION MONITORING MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Type

7.2.2. By Technique

7.2.3. By End-User

7.2.4. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Corrosion Monitoring Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Type

7.3.1.2.2. By Technique

7.3.1.2.3. By End-User

7.3.2. United Kingdom Corrosion Monitoring Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Type

7.3.2.2.2. By Technique

7.3.2.2.3. By End-User

7.3.3. Italy Corrosion Monitoring Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Type

7.3.3.2.2. By Technique

7.3.3.2.3. By End-User

7.3.4. France Corrosion Monitoring Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Type

- 7.3.4.2.2. By Technique
- 7.3.4.2.3. By End-User
- 7.3.5. Spain Corrosion Monitoring Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Type
 - 7.3.5.2.2. By Technique
 - 7.3.5.2.3. By End-User

8. ASIA-PACIFIC CORROSION MONITORING MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Technique
 - 8.2.3. By End-User
 - 8.2.4. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Corrosion Monitoring Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Technique
 - 8.3.1.2.3. By End-User
 - 8.3.2. India Corrosion Monitoring Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Technique
 - 8.3.2.2.3. By End-User
 - 8.3.3. Japan Corrosion Monitoring Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type

- 8.3.3.2.2. By Technique
- 8.3.3.2.3. By End-User
- 8.3.4. South Korea Corrosion Monitoring Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By Technique
 - 8.3.4.2.3. By End-User
- 8.3.5. Australia Corrosion Monitoring Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By Technique
 - 8.3.5.2.3. By End-User

9. SOUTH AMERICA CORROSION MONITORING MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Technique
 - 9.2.3. By End-User
 - 9.2.4. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Corrosion Monitoring Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Type
 - 9.3.1.2.2. By Technique
 - 9.3.1.2.3. By End-User
 - 9.3.2. Argentina Corrosion Monitoring Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type

- 9.3.2.2.2. By Technique
- 9.3.2.2.3. By End-User
- 9.3.3. Colombia Corrosion Monitoring Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Type
 - 9.3.3.2.2. By Technique
 - 9.3.3.2.3. By End-User

10. MIDDLE EAST AND AFRICA CORROSION MONITORING MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By Technique
 - 10.2.3. By End-User
 - 10.2.4. By Country
- 10.3. Middle East and Africa: Country Analysis
 - 10.3.1. South Africa Corrosion Monitoring Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Type
 - 10.3.1.2.2. By Technique
 - 10.3.1.2.3. By End-User
 - 10.3.2. Saudi Arabia Corrosion Monitoring Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By Technique
 - 10.3.2.2.3. By End-User
 - 10.3.3. UAE Corrosion Monitoring Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type

- 10.3.3.2.2. By Technique
- 10.3.3.2.3. By End-User
- 10.3.4. Kuwait Corrosion Monitoring Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Type
 - 10.3.4.2.2. By Technique
 - 10.3.4.2.3. By End-User
- 10.3.5. Turkey Corrosion Monitoring Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Type
 - 10.3.5.2.2. By Technique
 - 10.3.5.2.3. By End-User

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. COMPANY PROFILES

- 13.1. Honeywell International Inc.
 - 13.1.1. Business Overview
 - 13.1.2. Key Revenue and Financials
 - 13.1.3. Recent Developments
 - 13.1.4. Key Personnel/Key Contact Person
 - 13.1.5. Key Product/Services Offered
- 13.2. Emerson Electric Co.
- 13.3. General Electric Company
- 13.4. Rohrbach Cosasco Systems, Inc.

- 13.5. Intertek Group plc
- 13.6. SGS Soci t  G n rale de Surveillance SA
- 13.7. Tinker & Rasor, Inc
- 13.8. Applied Corrosion Monitoring, Inc.
- 13.9. Buckleys (UVRAL) Limited
- 13.10. Icorr Technologies Limited

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

I would like to order

Product name: Corrosion Monitoring Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Type (Intrusive Techniques, Non-Intrusive Techniques), By Technique (Corrosion Coupons, Electrical resistance, Linear Polarization Resistance, Galvanic, Ultrasonic Thickness Measurement), By End-User (Oil & Gas, Chemical, Manufacturing), By Region, By Competition, 2020-2030F

Product link: <https://marketpublishers.com/r/C37B3564833FEN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/C37B3564833FEN.html>