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Global Non-Intrusive Load Monitoring Device Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Non-Intrusive Load Monitoring Device market size was valued at US$ 155 million in 2025 and is forecast to a readjusted size of US$ 355 million by 2032 with a CAGR of 12.5% during review period.

In 2025, global sales of Non-Intrusive Load Monitoring Devices reached approximately 520,000 units, with an average manufacturer-level selling price of about USD 290 per unit. Gross margins among major manufacturers were approximately 30%–42%.

A Non-Intrusive Load Monitoring Device is an intelligent monitoring device capable of identifying and disaggregating overall electricity consumption without requiring a separate meter or sensor to be installed on each electrical appliance. It is typically connected to the main incoming power line, electricity meter, or distribution circuit, where it continuously collects voltage, current, power, and waveform data. Load disaggregation algorithms are then used to determine the operating status, power consumption, and energy usage of individual appliances or load categories. Its key advantage lies in using a single measurement point to identify multiple loads, enabling itemized energy consumption analysis, abnormal electricity-use detection, equipment condition monitoring, and energy-saving diagnostics at relatively low installation and retrofit costs. The product is also characterized by simple installation, broad monitoring coverage, high data granularity, and suitability for large-scale deployment.

The upstream supply chain of Non-Intrusive Load Monitoring Devices mainly includes current transformers, voltage acquisition chips, metering chips, microprocessors, communication modules, memory components, power modules, printed circuit boards,

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and structural components, together with load signature databases, identification algorithms, and embedded software. Midstream companies are responsible for hardware design, data acquisition, algorithm integration, terminal manufacturing, and platform adaptation. Downstream demand primarily comes from residential buildings, commercial buildings, industrial facilities, and public facilities. Key customers include power utilities, energy service providers, property management companies, industrial users, and smart home solution providers, which use these devices for itemized energy monitoring, equipment condition analysis, electrical safety management, energy efficiency optimization, and demand-side management.

Report Scope

This report is a detailed and comprehensive analysis for global Non-Intrusive Load Monitoring Device market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Non-Intrusive Load Monitoring Device market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Non-Intrusive Load Monitoring Device market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Non-Intrusive Load Monitoring Device market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Non-Intrusive Load Monitoring Device market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 2021-2026

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The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Non-Intrusive Load Monitoring Device

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Non-Intrusive Load Monitoring Device market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Smappee, Voltaware, NET2GRID, Informetis, Joko Labs, Kimbal, Verdigris Technologies, Beijing Zhixiang Technology, Wasion Group, Jiangsu Linyang Energy, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Non-Intrusive Load Monitoring Device market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Standalone Monitoring Terminal

Smart Meter Module-Based Device

Distribution Gateway-Integrated Device

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Market segment by Power Supply System

Single-Phase

Three-Phase

Market segment by Data Processing Method

Edge Computing Type

Cloud Computing Type

Edge-Cloud Collaborative Type

Market segment by Maximum Monitoring Current

?100 A

>100–400 A

>400 A

Market segment by Application

Residential

Commercial Buildings

Industrial Facilities

Public Facilities

Other

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Major players covered

Smappee

Voltaware

NET2GRID

Informetis

Joko Labs

Kimbal

Verdigris Technologies

Beijing Zhixiang Technology

Wasion Group

Jiangsu Linyang Energy

CSG Smart Electrical Technology

Shanghai Qianju Intelligent Technology

Beijing Huizhi Boyi Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

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Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Non-Intrusive Load Monitoring Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Non-Intrusive Load Monitoring Device, with price, sales quantity, revenue, and global market share of Non-Intrusive Load Monitoring Device from 2021 to 2026.

Chapter 3, the Non-Intrusive Load Monitoring Device competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Non-Intrusive Load Monitoring Device breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Non-Intrusive Load Monitoring Device market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Non-Intrusive Load Monitoring Device.

Chapter 14 and 15, to describe Non-Intrusive Load Monitoring Device sales channel, distributors, customers, research findings and conclusion.

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