

Global Ultrasonic Fill-level Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ultrasonic Fill-level Sensor market size is expected to reach \$ 243 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

An ultrasonic fill-level sensor is a non-contact device that measures the level of liquids, solids, or sludges by emitting high-frequency sound waves (typically above 20 kHz) and calculating the 'Time-of-Flight' (ToF) for the echo to return from the material's surface. In 2026, the market has moved toward Edge-AI integrated sensors that can automatically filter out false echoes from internal tank obstructions (like agitators or ladders) without manual calibration. A significant 2026 shift is the rise of Battery-Powered IoT Ultrasonic Nodes used in 'Smart Waste' and 'Remote Tank' applications; these devices use LPWAN (Low-Power Wide-Area Network) connectivity to report fill levels in real-time, enabling dynamic collection routing and preventing overflow in decentralized utility networks.

In 2025, global ultrasonic fill-level sensor production reached approximately 2629.86 k units, with an average global market price of around US\$ 61.22 per unit. And global ultrasonic fill-level sensor production capacity reached approximately 3500 k units. The average gross margin in this industry reached 26.59%.

The upstream supply chain for ultrasonic fill-level sensors is centered on the production of high-precision piezoelectric components and signal-processing semiconductors. The core 'raw material' is the Bulk Piezoelectric Transducer (often made from PZT?Lead Zirconate Titanate), which accounts for roughly 89% of the technology share in 2026 due to its robustness. Key upstream suppliers include TDK Corporation and PI Ceramic (Physik Instrumente) (providing specialized ultrasound transducer disks and miniaturized piezo elements), Analog Devices and Texas Instruments (delivering the

low-power SoCs and analog-to-digital converters for ToF calculation), and Murata Manufacturing (supplying high-reliability ceramic resonators). In 2026, a major upstream challenge is the inflation of rare earth and piezoelectric materials, prompting a move toward 'lead-free' formulations to meet tightening environmental regulations. The downstream segment involves the integration of these sensors into industrial automation, environmental management, and smart city infrastructure. Value is realized through 'Non-Contact Reliability,' where the sensor's ability to function in corrosive or fouling-prone environments (like wastewater) reduces maintenance costs. Significant downstream customers and high-volume users include Water and Wastewater Utilities (utilizing sensors for open-channel flow and tank monitoring), Chemical and Pharmaceutical Manufacturers (e.g., BASF and Covestro, who use redundant ultrasonic/radar setups for safety-critical level monitoring), and Smart City Waste Operators (integrating sensors into bins to optimize collection). In 2026, the downstream market is seeing a surge in 'Chemical Feed Tank' monitoring, where small IBC totes and drums are monitored by compact ultrasonic units to prevent pump 'dry-run' failures.

This report studies the global Ultrasonic Fill-level Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultrasonic Fill-level Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ultrasonic Fill-level Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ultrasonic Fill-level Sensor total production and demand, 2021-2032, (K Units)

Global Ultrasonic Fill-level Sensor total production value, 2021-2032, (USD Million)

Global Ultrasonic Fill-level Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Ultrasonic Fill-level Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ultrasonic Fill-level Sensor domestic production, consumption, key domestic manufacturers and share

Global Ultrasonic Fill-level Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Ultrasonic Fill-level Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Ultrasonic Fill-level Sensor production by Application, production, value, CAGR,

2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ultrasonic Fill-level Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Pepperl+Fuchs (DE), wenglor (DE), Sensoneo (SK), RecycloBin (IN), MaxBotix (US), WasteHero (DK), EcoMobile (HR), Nordsense (DK), BrighterBins (BE), Tekelek (IE), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ultrasonic Fill-level Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ultrasonic Fill-level Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultrasonic Fill-level Sensor Market, Segmentation by Type:

Battery Powered

Wired

Global Ultrasonic Fill-level Sensor Market, Segmentation by Measurement Range:

0-2 m

0-5 m

Others

Global Ultrasonic Fill-level Sensor Market, Segmentation by Accuracy:

±0.25%

±0.5%

Others

Global Ultrasonic Fill-level Sensor Market, Segmentation by Application:

Environmental

Automotive

Others

Companies Profiled:

Pepperl+Fuchs (DE)

wenglor (DE)

Sensoneo (SK)

RecycloBin (IN)

MaxBotix (US)

WasteHero (DK)

EcoMobile (HR)

Nordsense (DK)

BrighterBins (BE)

Tekelek (IE)

WoMaster (TW)

CNDingtek (CN)

Teneo IoT (NL)

LoneStar (US)

MOBA (AU)

ELKO EP (CZ)

TE Connectivity (CH)

Siemens (DE)

Delairco (JP)

Key Questions Answered:

1. How big is the global Ultrasonic Fill-level Sensor market?
2. What is the demand of the global Ultrasonic Fill-level Sensor market?
3. What is the year over year growth of the global Ultrasonic Fill-level Sensor market?
4. What is the production and production value of the global Ultrasonic Fill-level Sensor market?
5. Who are the key producers in the global Ultrasonic Fill-level Sensor market?
6. What are the growth factors driving the market demand?

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