

Gas Discharge Tubes Market by Product Type (Through-Hole, Surface Mounted, Hybrid), Electrodes (Two, Three), Voltage (High, Low-Medium), Application (Power Distribution, Telecommunication, Consumer Electronics, Industrial) - Global Forecast to 2030

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Abstracts

The global gas discharge tubes market is likely to grow from USD 1.60 billion in 2025 to USD 1.98 billion by 2030, registering a CAGR of 4.4%. The gas discharge tubes market is growing steadily due to increasing demand for reliable surge protection across telecommunications, energy, and industrial systems. Expansion of 5G networks and rising use of connected devices are driving the need for effective protection of sensitive electronic equipment. Growth in renewable energy and EV charging infrastructure is also increasing exposure to voltage fluctuations, supporting demand for GDTs. Industries are focusing on improving system reliability and reducing equipment failure, which further drives adoption. Manufacturers are developing compact and high-performance products to meet evolving requirements. These factors support the consistent growth of the gas discharge.

“High-voltage surge segment to record higher CAGR from 2025 to 2030”

The high-voltage surge segment is expected to grow at the fastest rate during the forecast period due to increasing demand for robust protection in power-intensive applications. Expansion of renewable energy systems, including solar and wind, is exposing equipment to higher voltage fluctuations, driving the need for reliable surge protection. Growth in EV charging infrastructure and smart grid deployment is further increasing demand for high-voltage components. These environments require protection solutions capable of handling large transient surges and ensuring system stability. Additionally, rising industrial electrification and modernization of power

infrastructure are supporting the adoption of high-voltage gas discharge tubes across critical applications.

“Power distribution systems segment to dominate gas discharge tubes market during forecast period”

The power distribution systems segment is expected to dominate the gas discharge tubes market during the forecast period due to the critical need for protecting electrical infrastructure from voltage surges. Increasing investments in grid modernization, smart grids, and renewable energy integration are driving demand for reliable surge protection solutions. Power distribution networks are highly exposed to lightning strikes and switching transients, making GDTs essential for ensuring system stability and equipment safety. Additionally, rising electrification and expansion of transmission and distribution infrastructure are supporting widespread adoption. Utilities and energy providers are focusing on improving grid resilience, further strengthening the demand for GDTs in power distribution applications.

“China to hold largest share of Asia Pacific gas discharge tubes market in 2025”

China is expected to dominate the gas discharge tubes market in Asia Pacific due to its strong electronics manufacturing base and large-scale production capabilities. The presence of domestic companies such as JieJie Microelectronics Co., Ltd., Shenzhen Ruilongyuan Electronics Co., Ltd., and Xiamen SET Electronics Co., Ltd. supports high-volume manufacturing and competitive pricing. Rapid expansion of telecommunications infrastructure, including 5G networks, along with growing investments in renewable energy and industrial automation, is driving demand for surge protection components. Additionally, China’s well-established supply chain ecosystem and increasing adoption of electronic devices are further strengthening its leading position in the regional GDT market.

By Company Type: Tier 1 – 40%, Tier 2 – 35%, and Tier 3 – 25%

By Designation: Directors – 45%, C-level Executives – 35%, and Others – 20%

By Region: North America – 25%, Europe – 20%, Asia Pacific – 45%, and RoW – 10%

Prominent players profiled in this report include Littelfuse, Inc. (US), TDK Corporation

(Japan), Bourns, Inc. (US), Eaton (Ireland), Weidmüller Interface GmbH & Co. KG (Germany), HUBER+SUHNER (Switzerland), Phoenix Contact (Germany), YAGEO Group (Taiwan), DEHN SE (Germany), and Sankosha U.S.A., Inc. (US), among others.

Research Coverage

The report defines, describes, and forecasts the gas discharge tubes market based on product type (through-hole gas discharge tubes, surface-mounted gas discharge tubes, and hybrid gas discharge tubes), number of electrode (two-electrode gas discharge tube and three-electrode gas discharge tube), voltage (high-voltage surge and low-to-medium-voltage surge), material (ceramics and others including glass and quartz), and application (power distribution systems, telecommunication networks, consumer electronics, and industrial applications). It also analyzes the market across key regions, including North America, Europe, Asia Pacific, and RoW. The report provides detailed insights into the major drivers, restraints, opportunities, and challenges influencing market growth. In addition, it evaluates competitive developments, such as product launches, expansions, partnerships, acquisitions, and strategic initiatives undertaken by leading companies to strengthen their market position.

Reasons to Buy This Report

The report will help market leaders/new entrants with information on the closest approximations of the revenue for the overall gas discharge tubes market and its subsegments. The report will help stakeholders understand the competitive landscape and gain more insight to position their business better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market's pulse and provides information on key drivers, restraints, opportunities, and challenges.

The report will provide insights into the following points:

Analysis of Key Drivers (Rising demand for surge protection in telecommunication infrastructure, Growth in industrial automation and control systems), restraints (High capital investment and manufacturing complexity associated with precision GDT production, Performance limitations in high-speed and miniaturized electronic applications), opportunities (Surge protection in EV charging stations and smart mobility infrastructure, Increasing deployment in renewable energy systems such as solar inverters and wind power installations), and challenges (Availability of alternative surge protection technologies, Continuous need for product innovation to meet evolving high-

frequency and compact design requirements) of the gas discharge tubes market.

Product Development/Innovation: Detailed insights into upcoming technologies, research & development activities, and product launches in the gas discharge tubes market

Market Development: Comprehensive information about lucrative markets (the report analyzes the gas discharge tubes market across various regions)

Market Diversification: Exhaustive information about new product launches, untapped geographies, recent developments, and investments in the gas discharge tubes market

Competitive Assessment: In-depth assessment of market share, growth strategies, and offerings of leading players, including Littelfuse, Inc. (US), Eaton (Ireland), Weidmüller Interface GmbH & Co. KG (Germany), HUBER+SUHNER (Switzerland), and TDK Corporation (Japan) in the gas discharge tubes market

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