

Global Piezoelectric Earth Pressure Sensor 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 Piezoelectric Earth Pressure Sensor market size was valued at US\$ 124 million in 2025 and is forecast to a readjusted size of US\$ 182 million by 2032 with a CAGR of 5.6% during review period.

Piezoelectric earth pressure sensors typically refer to monitoring devices that use quartz or piezoelectric ceramics as sensing elements. When subjected to soil pressure, they convert mechanical stress into an electrical charge/voltage signal, making them suitable for measuring soil stress and rapidly changing pressure.

Upstream components mainly include piezoelectric quartz/ceramics, metal diaphragms, stainless steel housings, seals, cables, and signal conditioning components. Downstream applications include geotechnical engineering monitoring of embankments, retaining walls, diaphragm walls, tunnel linings, foundations, bridge abutments, and pile ends.

The global unit price of a piezoelectric earth pressure sensor is \$350, with annual sales of approximately 345,000 units and a global production capacity of 500,000 units. The industry profit margin is 30%.

This report is a detailed and comprehensive analysis for global Piezoelectric Earth Pressure Sensor 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 Piezoelectric Earth Pressure Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Piezoelectric Earth Pressure Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Piezoelectric Earth Pressure Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Piezoelectric Earth Pressure Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Piezoelectric Earth Pressure Sensor

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 Piezoelectric Earth Pressure Sensor 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 GEOKON, Sisgeo, RST Instruments, Roctest, Encardio Rite, Soil Instruments, Geosense, Durham Geo, Geonor, Sanlien Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Piezoelectric Earth Pressure Sensor 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 segment by Type

Charge Output

ICP/IEPE Voltage Output

Market segment by Sensitive Materials

Quartz

Piezoelectric Ceramics

Tourmaline

Market segment by Measurement Direction

Vertical Earth Pressure

Horizontal Earth Pressure

Oblique Earth Pressure

Market segment by Application

Foundation Pit Engineering

Tunnel and Underground Engineering

Road and Railway Subgrade

Other

Major players covered

GEOKON

Sisgeo

RST Instruments

Roctest

Encardio Rite

Soil Instruments

Geosense

Durham Geo

Geonor

Sanlien Technology

Tokyo Measuring Instruments Laboratory (TML)

Geokang Technologies

BJEAC

Free-sun

Kingmach

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)

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

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Piezoelectric Earth Pressure Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Piezoelectric Earth Pressure Sensor, with price, sales quantity, revenue, and global market share of Piezoelectric Earth Pressure Sensor from 2021 to 2026.

Chapter 3, the Piezoelectric Earth Pressure Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Piezoelectric Earth Pressure Sensor 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 Piezoelectric Earth Pressure Sensor 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 Piezoelectric Earth Pressure Sensor.

Chapter 14 and 15, to describe Piezoelectric Earth Pressure Sensor sales channel, distributors, customers, research findings and conclusion.

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