

# Global Total Solar Radiation Pyranometer Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Total Solar Radiation Pyranometer market size is expected to reach \$ 573 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

A total solar radiation detector is a precision sensing device designed to measure the total solar radiation energy received per unit area. Typically based on thermopile or silicon photodetector technologies, these instruments are widely utilized in fields such as meteorological observation, photovoltaic power generation performance assessment, agro-ecological monitoring, and climate research. Their core function involves performing high-precision, continuous, or instantaneous measurements of global horizontal solar irradiance, and outputting standardized radiation data. The upstream segment of the total solar radiation detector industry chain comprises core components such as thermopile sensors, optical domes, radiation filters, high-precision glass covers, signal conditioning circuits, and data acquisition modules. The midstream segment encompasses sensor assembly, optical calibration, signal processing integration, and housing structure design—processes critical for ensuring measurement accuracy and environmental stability. Downstream applications span meteorological agencies, solar power stations, agricultural monitoring systems, environmental research institutions, and climate observation networks. Ancillary services include equipment installation, calibration, maintenance, and data validation, all aimed at ensuring long-term measurement accuracy, system reliability, and effective integration with meteorological data platforms. In 2025, the global production volume of total solar radiation detectors is projected to reach approximately 135,714 units, with a global average market unit price of approximately US\$2,800. The gross profit margins of key enterprises within this industry typically range between 38% and 55%. Also in 2025, the global production capacity for total solar radiation detectors is estimated to be approximately 182,857

units.

This report studies the global Total Solar Radiation Pyranometer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Total Solar Radiation Pyranometer 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 Total Solar Radiation Pyranometer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Total Solar Radiation Pyranometer total production and demand, 2021-2032, (Units)

Global Total Solar Radiation Pyranometer total production value, 2021-2032, (USD Million)

Global Total Solar Radiation Pyranometer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Total Solar Radiation Pyranometer consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Total Solar Radiation Pyranometer domestic production, consumption, key domestic manufacturers and share

Global Total Solar Radiation Pyranometer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Total Solar Radiation Pyranometer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Total Solar Radiation Pyranometer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Total Solar Radiation Pyranometer 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 Kipp & Zonen, Hukseflux, EKO Instruments, Apogee Instruments, LI-COR, Eppley Laboratory, Thies Clima, Lufft, Vaisala, Yigood, 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 Total Solar Radiation Pyranometer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Total Solar Radiation Pyranometer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Total Solar Radiation Pyranometer Market, Segmentation by Type:

Thermopile Pyranometer

Silicon Photodiode Pyranometer

Spectral Pyranometer

Secondary Standard Pyranometer

## Global Total Solar Radiation Pyranometer Market, Segmentation by Time Response Performance:

Fast Response:  $t < 5s$

Standard Response:  $5s < t < 20s$

Slow Response:  $t > 20s$

## Global Total Solar Radiation Pyranometer Market, Segmentation by Application:

PV Power Plant Monitoring

Agricultural Radiation Analysis

Environmental Impact Assessment

Others

## Companies Profiled:

Kipp & Zonen

Hukseflux

EKO Instruments

Apogee Instruments

LI-COR

Eppley Laboratory

Thies Clima

Lufft

Vaisala

Yigood

Key Questions Answered:

1. How big is the global Total Solar Radiation Pyranometer market?
2. What is the demand of the global Total Solar Radiation Pyranometer market?
3. What is the year over year growth of the global Total Solar Radiation Pyranometer market?
4. What is the production and production value of the global Total Solar Radiation Pyranometer market?
5. Who are the key producers in the global Total Solar Radiation Pyranometer market?
6. What are the growth factors driving the market demand?

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