

South & Central America Pyranometer Market Forecast to 2030 - Regional Analysis - by Type (Photovoltaic Pyranometers and Thermopile Pyranometers) and Application (Photovoltaic Systems, Meteorology, and Climate Stations)

<https://marketpublishers.com/r/S8023B407460EN.html>

Date: February 2024

Pages: 63

Price: US\$ 3,550.00 (Single User License)

ID: S8023B407460EN

Abstracts

The South & Central America pyranometer market was valued at US\$ 3.41 million in 2022 and is expected to reach US\$ 4.95 million by 2030; it is estimated to grow at a CAGR of 4.8% from 2022 to 2030.

Growing Focus on Technological Advancement Plant Fuels the South & Central America Pyranometer Market

The development of new materials and technologies can improve the performance of pyranometers. New types of sensors such as Silicon-cell solar radiation sensor can be used to measure solar radiation more accurately, and new materials can make pyranometers more durable and resistant to harsh weather conditions. The use of silicon solar cells can provide a more accurate and consistent measurement of solar radiation. Many companies such as Apogee provide a silicon cell pyranometer. Apogee series pyranometers are silicon-cell pyranometers that are only sensitive to a portion of the solar spectrum, between 350 and 1,100 nm (~80% of total shortwave energy falls within this range). Also, the LightScout Silicon Pyranometer from Spectrum Technologies uses a silicon solar cell as the sensor. This provides a more accurate and consistent solar radiation measurement than traditional thermopile pyranometers. The standards for developing silicon-cell pyranometers must meet the International Organisation of Standardization (ISO) 9060:2018 Class C requirements.

Further, new technologies to improve the overall performance and maintenance of

pyranometers are being developed by various organizations across the globe. For instance, the SMP12 pyranometer from Kipp & Zonen uses solid-state dome heating, no moving systems, and best-in-class surge protection to maximize accuracy and minimize maintenance requirements. Such technological advancement in pyranometers will lead to more accurate, reliable, and affordable pyranometers for a wider range of applications. Thus, the growing focus on technological advancement related to pyranometers is expected to fuel the market growth during the period of 2022-2030.

South & Central America Pyranometer Market Overview

Governments of various countries in South & Central America are adopting solar power instead of fossil fuel to mitigate pollution, due to which the governments are promoting the companies to open photovoltaic power plants in countries such as Brazil and Argentina. Many key pyranometer manufacturing companies such as Delta-T Devices Ltd., Darrera, and Acoem are operating across all those plants in various countries. These companies are witnessing the demand for pyranometers from photovoltaic power plants to monitor the effectiveness of the photovoltaic power plant. For instance, in August 2023, Brazil received an investment of US\$ 477.99 million from the EDP, a Portuguese power company, to raise its investment in renewable projects. This project aims to generate solar energy with a 530 megawatt-peak (MWp) capacity annually. Thus, such activities of investment and government initiatives towards expanding solar power plants are propelling the South & Central America pyranometer market growth.

South & Central America Pyranometer Market Revenue and Forecast to 2030 (US\$ Million)

South & Central America Pyranometer Market Segmentation

The South & Central America pyranometer market is segmented into type, application, and country.

Based on type, the South & Central America pyranometer market is bifurcated into photovoltaic pyranometers and thermopile pyranometers. The thermopile pyranometers segment held a larger share in 2022.

In terms of application, the South & Central America pyranometer market is categorized into photovoltaic systems, meteorology, and climate stations. The photovoltaic systems segment held the largest share in 2022.

Based on country, the South & Central America pyranometer market is segmented Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America pyranometer market in 2022.

Apogee Instruments Inc, Campbell Scientific Inc, Delta OHM SRL, Delta-T Devices Ltd, Hukseflux Thermal Sensors BV, LI-COR Inc, and OTT HydroMet Corp are some of the leading companies operating in the South & Central America pyranometer market.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. SOUTH & CENTRAL AMERICA PYRANOMETER MARKET LANDSCAPE

- 4.1 Overview
- 4.2 Ecosystem Analysis
- 4.3 Trends in Solar Energy
 - 4.3.1 South & Central America Solar Market by Region, 2020-2030

5. SOUTH & CENTRAL AMERICA PYRANOMETER MARKET - KEY INDUSTRY DYNAMICS

- 5.1 Drivers
 - 5.1.1 Rising Awareness About Benefits of Using Pyranometer
 - 5.1.2 Increasing Application of Pyranometers in Photovoltaic Systems, Climatology, and Meteorology
 - 5.1.3 Growing Application of Pyranometers in Agriculture Industry
- 5.2 Restraints
 - 5.2.1 Lack of Knowledge Regarding Pyranometers
 - 5.2.2 Relatively High Cost of Thermopile Pyranometers
- 5.3 Opportunity
 - 5.3.1 Government Initiatives to Build New Solar Energy Plant
- 5.4 Future Trends

5.4.1 Growing Focus on Technological Advancement

6. PYRANOMETER MARKET - SOUTH & CENTRAL AMERICA MARKET ANALYSIS

6.1 South & Central America Pyranometer Market Revenue (US\$ Million), 2022 - 2030

6.1.1 South & Central America Pyranometer Market Revenue and Forecasts to 2030 (US\$ Million)

7. SOUTH & CENTRAL AMERICA PYRANOMETER MARKET ANALYSIS - TYPE

7.1 Silicon Pyranometers

7.1.1 Overview

7.1.2 Silicon Pyranometers Market Revenue and Forecasts To 2030 (US\$ Million)

7.2 Thermopile Pyranometers

7.2.1 Overview

7.2.2 Thermopile Pyranometers Market Revenue and Forecasts To 2030 (US\$ Million)

8. SOUTH & CENTRAL AMERICA PYRANOMETER MARKET ANALYSIS - APPLICATION

8.1 Photovoltaic Systems

8.1.1 Overview

8.1.2 Photovoltaic Systems Market Revenue and Forecasts To 2030 (US\$ Million)

8.2 Meteorology

8.2.1 Overview

8.2.2 Meteorology Market Revenue and Forecasts To 2030 (US\$ Million)

8.3 Climate Station

8.3.1 Overview

8.3.2 Climate Station Market Revenue and Forecasts To 2030 (US\$ Million)

9. SOUTH & CENTRAL AMERICA PYRANOMETER MARKET - COUNTRY ANALYSIS

9.1 Overview

9.1.1 South & Central America Pyranometer Market, by Key Country- Revenue (2022) (US\$ Million)

9.1.2 South & Central America Pyranometer Market Revenue and Forecasts and Analysis - By Countries

9.1.2.1 Brazil: South & Central America Pyranometer Market Revenue and Forecasts

to 2030 (US\$ Million)

9.1.2.1.1 Brazil: South & Central America Pyranometer Market Breakdown by Type

9.1.2.1.2 Brazil: South & Central America Pyranometer Market Breakdown by Application

9.1.2.2 Argentina: South & Central America Pyranometer Market Revenue and Forecasts to 2030 (US\$ Million)

9.1.2.2.1 Argentina: South & Central America Pyranometer Market Breakdown by Type

9.1.2.2.2 Argentina: South & Central America Pyranometer Market Breakdown by Application

9.1.2.3 Rest of South & Central America Pyranometer Market Revenue and Forecasts to 2030 (US\$ Million)

9.1.2.3.1 Rest of South & Central America Pyranometer Market Breakdown by Type

9.1.2.3.2 Rest of South & Central America Pyranometer Market Breakdown by Application

10. COMPETITIVE LANDSCAPE

10.1 Heat Map Analysis by Key Players

11. INDUSTRY LANDSCAPE

11.1 Overview

11.2 Market Initiative

11.3 Product Development

11.4 Mergers & Acquisitions

12. COMPANY PROFILES

12.1 Hukseflux Thermal Sensors BV

12.1.1 Key Facts

12.1.2 Business Description

12.1.3 Products and Services

12.1.4 Financial Overview

12.1.5 SWOT Analysis

12.1.6 Key Developments

12.2 Delta OHM SRL

12.2.1 Key Facts

12.2.2 Business Description

- 12.2.3 Products and Services
- 12.2.4 Financial Overview
- 12.2.5 SWOT Analysis
- 12.2.6 Key Developments
- 12.3 LI-COR Inc
 - 12.3.1 Key Facts
 - 12.3.2 Business Description
 - 12.3.3 Products and Services
 - 12.3.4 Financial Overview
 - 12.3.5 SWOT Analysis
 - 12.3.6 Key Developments
- 12.4 OTT HydroMet Corp
 - 12.4.1 Key Facts
 - 12.4.2 Business Description
 - 12.4.3 Products and Services
 - 12.4.4 Financial Overview
 - 12.4.5 SWOT Analysis
 - 12.4.6 Key Developments
- 12.5 Apogee Instruments Inc
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis
 - 12.5.6 Key Developments
- 12.6 Campbell Scientific Inc
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 Delta-T Devices Ltd
 - 12.7.1 Key Facts
 - 12.7.2 Business Description
 - 12.7.3 Products and Services
 - 12.7.4 Financial Overview
 - 12.7.5 SWOT Analysis
 - 12.7.6 Key Developments

13. APPENDIX

13.1 Word Index

List Of Tables

LIST OF TABLES

Table 1. South & Central America Pyranometer Market Segmentation

Table 2. South & Central America Solar Market by Region, 2020-2030

Table 3. South & Central America Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - Type

Table 4. South & Central America Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - Application

Table 5. South & Central America Pyranometer Market, by Country - Revenue and Forecast to 2030 (USD Million)

Table 6. Brazil: South & Central America Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Type

Table 7. Brazil: South & Central America Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Application

Table 8. Argentina: South & Central America Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Type

Table 9. Argentina: South & Central America Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Application

Table 10. Rest of South & Central America Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Type

Table 11. Rest of South & Central America Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Application

Table 12. Company Positioning & Concentration

Table 13. @LIST OF Abbreviation

List Of Figures

LIST OF FIGURES

Figure 1. South & Central America Pyranometer Market Segmentation, By Country

Figure 2. Ecosystem: South & Central America Pyranometer Market

Figure 3. South & Central America Pyranometer Market - Key Industry Dynamics

Figure 4. South & Central America Pyranometer Market - Key Driver and Restrain Impact Analysis

Figure 5. South & Central America Pyranometer Market Revenue (US\$ Million), 2022 & 2030

Figure 6. South & Central America Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 7. South & Central America Pyranometer Market Share (%) - Type, 2022 and 2030

Figure 8. Silicon Pyranometers Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 9. Thermopile Pyranometers Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 10. South & Central America Pyranometer Market Share (%) - Application, 2022 and 2030

Figure 11. Photovoltaic Systems Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 12. Meteorology Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 13. Climate Station Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 14. South & Central America Pyranometer Market, by Key Country- Revenue (2022) (US\$ Million)

Figure 15. South & Central America Pyranometer Market Breakdown by Key Countries, 2022 and 2030 (%)

Figure 16. Brazil: South & Central America Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 17. Argentina: South & Central America Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 18. Rest of South & Central America Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million)

I would like to order

Product name: South & Central America Pyranometer Market Forecast to 2030 - Regional Analysis - by Type (Photovoltaic Pyranometers and Thermopile Pyranometers) and Application (Photovoltaic Systems, Meteorology, and Climate Stations)

Product link: <https://marketpublishers.com/r/S8023B407460EN.html>

Price: US\$ 3,550.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S8023B407460EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970