

Middle East & Africa 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/MCDC6E84BB4DEN.html>

Date: February 2024

Pages: 65

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

ID: MCDC6E84BB4DEN

Abstracts

The Middle East & Africa pyranometer market was valued at US\$ 5.02 million in 2022 and is expected to reach US\$ 7.70 million by 2030; it is estimated to grow at a CAGR of 5.5% from 2022 to 2030.

Growing Focus on Technological Advancement Fuels the Middle East & Africa 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 forecast period.

Middle East & Africa Pyranometer Market Overview

In South Africa, initiatives to secure a deal with China for a stable supply of solar panels show the region's focus on addressing the energy crisis through the usage of renewable energy sources. South Africa's power shortages and blackouts challenges indicate a growing need for solar power installations. In addition to the above deal, in February 2023, Mobarakeh Steel Company was expected to invest US\$ 500 million in a solar photovoltaic power plant in Iran. This plant is expected to be fully operational in three years. Kouhpayeh PV power station is the largest station in South Africa, and its investment represents the active interest of major players in the Middle East in adopting solar power plants. Such deals and continuous investments highlight the importance of precise solar radiation measurements, which pyranometers provide, to optimize the efficiency and output of solar projects. The increase in solar investments resulting from this deal will likely boost the pyranometer market in the Middle East, as accurate solar data is a crucial part of reliable energy generation.

Middle East & Africa Pyranometer Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Pyranometer Market Segmentation

The Middle East & Africa pyranometer market is segmented into type, application, and country.

Based on type, the Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa pyranometer market is South Africa, the UAE, Saudi Arabia, and the Rest of Middle East & Africa. South Africa dominated the Middle East & Africa 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 Middle East & Africa 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. MIDDLE EAST & AFRICA PYRANOMETER MARKET LANDSCAPE

- 4.1 Overview
- 4.2 Ecosystem Analysis
- 4.3 Trends in Solar Energy
 - 4.3.1 Middle East & Africa Solar Market by Region, 2020-2030

5. MIDDLE EAST & AFRICA 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 - MIDDLE EAST & AFRICA MARKET ANALYSIS

6.1 Middle East & Africa Pyranometer Market Revenue (US\$ Million), 2022 - 2030

6.1.1 Middle East & Africa Pyranometer Market Revenue and Forecasts to 2030 (US\$ Million)

7. MIDDLE EAST & AFRICA 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. MIDDLE EAST & AFRICA 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. MIDDLE EAST & AFRICA PYRANOMETER MARKET - GEOGRAPHICAL ANALYSIS

9.1 Middle East & Africa

9.1.1 Middle East & Africa Pyranometer Market Overview

9.1.2 Middle East & Africa Pyranometer Market , by Key Country- Revenue (2022) (US\$ Million)

9.1.3 Middle East & Africa Pyranometer Market Revenue and Forecasts and Analysis - By Countries

9.1.3.1 South Africa: Middle East & Africa Pyranometer Market Revenue and

Forecasts to 2030 (US\$ Million)

9.1.3.1.1 South Africa: Middle East & Africa Pyranometer Market Breakdown by Type

9.1.3.1.2 South Africa: Middle East & Africa Pyranometer Market Breakdown by Application

9.1.3.2 Saudi Arabia: Middle East & Africa Pyranometer Market Revenue and Forecasts to 2030 (US\$ Million)

9.1.3.2.1 Saudi Arabia: Middle East & Africa Pyranometer Market Breakdown by Type

9.1.3.2.2 Saudi Arabia: Middle East & Africa Pyranometer Market Breakdown by Application

9.1.3.3 UAE: Middle East & Africa Pyranometer Market Revenue and Forecasts to 2030 (US\$ Million)

9.1.3.3.1 UAE: Middle East & Africa Pyranometer Market Breakdown by Type

9.1.3.3.2 UAE: Middle East & Africa Pyranometer Market Breakdown by Application

9.1.3.4 Rest of Middle East & Africa Pyranometer Market Revenue and Forecasts to 2030 (US\$ Million)

9.1.3.4.1 Rest of Middle East & Africa Pyranometer Market Breakdown by Type

9.1.3.4.2 Rest of Middle East & Africa 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. Middle East & Africa Pyranometer Market Segmentation 9
- Table 2. Middle East & Africa Solar Market by Region, 2020-2030
- Table 3. Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - Type
- Table 4. Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - Application
- Table 5. Middle East and Africa Middle East & Africa Pyranometer Market, by Country - Revenue and Forecast to 2030 (USD Million)
- Table 6. South Africa: Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Type
- Table 7. South Africa: Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Application
- Table 8. Saudi Arabia: Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Type
- Table 9. Saudi Arabia: Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Application
- Table 10. UAE: Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Type
- Table 11. UAE: Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Application
- Table 12. Rest of Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Type
- Table 13. Rest of Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - By Application
- Table 14. Company Positioning & Concentration
- Table 15. @LIST OF Abbreviation

List Of Figures

LIST OF FIGURES

Figure 1. Middle East & Africa Pyranometer Market Segmentation, By Country

Figure 2. Ecosystem: Middle East & Africa Pyranometer Market

Figure 3. Middle East & Africa Pyranometer Market - Key Industry Dynamics

Figure 4. Middle East & Africa Pyranometer Market - Key Driver and Restrain Impact Analysis

Figure 5. Middle East & Africa Pyranometer Market Revenue (US\$ Million), 2022 & 2030

Figure 6. Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 7. Middle East & Africa 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. Middle East & Africa 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. Middle East & Africa Pyranometer Market, by Key Country- Revenue (2022) (US\$ Million)

Figure 15. Middle East & Africa Pyranometer Market Breakdown by Key Countries, 2022 and 2030 (%)

Figure 16. South Africa: Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 17. Saudi Arabia: Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 18. UAE: Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 19. Rest of Middle East & Africa Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million)

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