

Global Area Heat Stress Monitor 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 Area Heat Stress Monitor market size was valued at US\$ 190 million in 2025 and is forecast to a readjusted size of US\$ 272 million by 2032 with a CAGR of 5.3% during review period.

An Area Heat Stress Monitor (ATH Monitor) is a safety monitoring device used to assess the heat load level of the working environment. By integrating sensors for temperature, humidity, radiant heat, and wind speed, it calculates thermal stress indices such as WBGT (Weighted Baseline Temperature Scale) to determine the risk of heatstroke and heat fatigue. This device helps companies implement occupational health and safety management measures and is widely used in factory workshops, construction sites, mines, military and police training grounds, and various outdoor work environments. The upstream of the ATH Monitor industry chain includes core components such as temperature and humidity sensors, radiation sensors, microcontrollers, display modules, batteries, and housing structural parts. The midstream involves assembly, calibration, software integration, and functional testing. Downstream applications cover occupational safety management departments, industrial manufacturing enterprises, construction engineering units, mining sites, and environmental monitoring agencies, with supporting installation training, operation and maintenance services, and data analysis support to ensure long-term stable operation. In 2025, the global production of ATH Monitors was approximately 154,200 units, with a global average market price of approximately US\$1,200 per unit. The gross profit margin of major companies in the industry is between 30% and 50%. In 2025, the global production capacity of regional thermal stress monitoring instruments will be approximately 200,000 units.

The area heat stress monitor market is expanding due to increasing awareness of occupational health and stricter workplace safety regulations. Rising temperatures caused by climate change and the growth of outdoor and high-temperature industrial operations are driving demand for continuous environmental monitoring. Compared with manual inspection methods, digital heat stress monitors provide real-time data, higher accuracy, and automated alarms, improving worker safety and compliance. Manufacturers are integrating wireless communication, cloud platforms, and portable designs to enhance usability and data management. Overall, the market is expected to maintain steady growth supported by regulatory enforcement and industrial safety upgrades.

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

Global Area Heat Stress Monitor 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 Area Heat Stress Monitor 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 Area Heat Stress Monitor 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 Area Heat Stress Monitor

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 Area Heat Stress Monitor 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 TSI, Nielsen-Kellerman, REED Instruments, Flir, Romteck, Sper Scientific, Runrite Electronics, BESANTEK, SCADACore, AES, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Area Heat Stress Monitor 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

Fixed HSM

Handheld HSM

Market segment by Measurement Method

WBGT Monitor

Heat Index Monitor

Thermal Radiation Monitor

Multi-Parameter Environmental Monitor

Market segment by Application Scenario

Industrial Workplace Monitor

Outdoor Construction Monitor

Sports Event Monitor

Military Training Monitor

Market segment by Application

Military

Manufacturing Plants

Athletics and Sports

Agriculture

Mining and Oil & Gas

Others

Major players covered

TSI

Nielsen-Kellerman

REED Instruments

Flir

Romteck

Sper Scientific

Runrite Electronics

BESANTEK

SCADACore

AES

PCE Instruments

LSI LASTEM

Sato Keiryoki

Scarlet Tech

Numag Data Systems

General tools & instruments

TES Electrical Electronic

Kestrel

Air-Met

Bodytrak

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 Area Heat Stress Monitor product scope, market overview,

market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Area Heat Stress Monitor, with price, sales quantity, revenue, and global market share of Area Heat Stress Monitor from 2021 to 2026.

Chapter 3, the Area Heat Stress Monitor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Area Heat Stress Monitor 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 Area Heat Stress Monitor 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 Area Heat Stress Monitor.

Chapter 14 and 15, to describe Area Heat Stress Monitor sales channel, distributors, customers, research findings and conclusion.

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