

Global Reference Thermometer Market Size Study, By Device (Handheld, Desktop), By Application (Industrial, Medical, R&D, Others), and Regional Forecasts 2022-2032

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Abstracts

The global reference thermometer market, valued at USD 11.4 million in 2023, is set to expand significantly with a projected CAGR of 5.4% from 2024 to 2032. This growth is attributed to advancements in temperature measurement technologies that cater to the critical requirements of accuracy and efficiency across various industries. The market is witnessing a strong demand for RTD sensors and mercury-free thermometers, driven by stringent regulations on mercury usage globally and the necessity for precise temperature control in critical processes.

Handheld reference thermometers emerged as the dominant segment in 2023, accounting for 64.3% of the market share. Their portability and affordability make them the preferred choice for industrial and medical applications, where precision and practicality are paramount. Conversely, desktop reference thermometers are gaining traction for their enhanced accuracy and advanced features, such as data logging and compliance tracking, contributing to their anticipated rapid growth.

In terms of application, the industrial segment led the market in 2023, driven by the increasing use of RTD probe sensors in hazardous environments and quality control measures in manufacturing. Meanwhile, the medical segment is expected to grow at the fastest pace during the forecast period due to rising investments in advanced diagnostic technologies, the proliferation of digital thermometers, and growing emphasis on patient safety.

Regionally, North America held the largest share of 34.72% in 2023, supported by a

robust healthcare infrastructure and advancements in IoT-enabled thermometers. Europe is expected to register the fastest CAGR, bolstered by regulatory compliance and significant investment in industrial and healthcare applications. In the Asia Pacific, rapid industrialization in countries like China and India fuels demand for precise temperature measurement tools, making it a key market for future growth.

Major market players included in this report are:

AccuMac Corporation

Dostmann Electronic GmbH

Fluke Corporation

Isothermal Technology Limited

Thermco Products, Inc.

ThermoProbe, Inc.

WIKA Instruments India Pvt. Ltd.

OMEGA Engineering

Anton Paar GmbH

LABOM Mess- und Regeltechnik GmbH

TESTO SE & Co. KGaA

Ashcroft Inc.

AMETEK, Inc.

Endress+Hauser Group

Mettler-Toledo International Inc.

The detailed segments and sub-segments of the market are explained below:

By Device:

Handheld

Desktop

By Application:

Industrial

Medical

R&D

Others

By Region:

North America:

U.S.

Canada

Mexico

Europe:

U.K.

Germany

France

Asia Pacific:

China

India

Japan

Latin America:

Brazil

Mexico

Middle East & Africa:

Saudi Arabia

South Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Detailed analysis of geographical landscapes with country-level insights.

Competitive landscape featuring major players and their strategies.

Comprehensive segmentation and forecast analysis.

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