

# **Cooling Meters Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (Wired, Wireless), By Type (Mechanical Cooling Meters, Ultrasonic Cooling Meters, Electromagnetic Cooling Meters), By Application (Residential, Commercial, Industrial, District Cooling), By Region & Competition, 2020-2030F**

<https://marketpublishers.com/r/CE6918D72B25EN.html>

Date: July 2025

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: CE6918D72B25EN

## **Abstracts**

### Market Overview

The Global Cooling Meters Market was valued at USD 1.34 Billion in 2024 and is expected to reach USD 2.00 Billion by 2030, growing at a CAGR of 6.71% during the forecast period. The market is expanding steadily due to rising energy efficiency demands, increased adoption of district cooling solutions, and a global push toward sustainable building practices across residential, commercial, and industrial applications. Cooling meters, which measure energy used for cooling, are becoming critical in modern energy monitoring systems, allowing accurate consumption tracking and cost control. Growth is particularly notable in urbanizing regions such as the Middle East and Asia-Pacific, where large-scale district cooling networks are being deployed to meet the rising demand in densely populated and smart infrastructure environments. Technological advances like IoT integration, wireless connectivity, and digital interfaces are boosting the shift from mechanical to ultrasonic and electromagnetic meters. Government mandates requiring energy metering in buildings are also accelerating market penetration, especially for smart and retrofit applications.

### Key Market Drivers

## Rising Adoption of District Cooling Systems

The global expansion of district cooling infrastructure is a major catalyst for the growth of cooling meters. District cooling uses centralized systems to deliver chilled water for air conditioning across multiple buildings, requiring accurate monitoring and billing to ensure fair energy distribution. Cooling meters play a key role in these systems by enabling transparent energy tracking and efficient load management. High cooling demand regions—particularly the Middle East, parts of Asia-Pacific, and Europe—are investing heavily in these centralized systems, where cooling meters serve as essential components for accountability and system optimization.

### Key Market Challenges

#### High Initial Costs and Return on Investment Concerns

A major hurdle in the cooling meters market is the significant upfront cost associated with advanced systems, particularly ultrasonic and smart meters. Although these technologies offer long-term efficiency and improved data accuracy, the initial investment required for both the devices and supporting infrastructure—such as communication interfaces and integration with building management systems—can be 2 to 3 times higher than traditional mechanical meters. This cost disparity poses adoption challenges in budget-conscious regions and among small-scale users. Additionally, the perceived long payback period, coupled with limited awareness of the benefits, often discourages early adoption, especially in emerging markets.

### Key Market Trends

#### Integration with Smart Building and Energy Management Systems

A growing trend in the cooling meters market is the integration with Smart Building and Building Energy Management Systems (BEMS). These systems rely on cooling meters for real-time consumption data, enabling centralized control, energy optimization, and compliance tracking. Cooling meters are now being designed with communication protocols such as Modbus, BACnet, M-Bus, LoRaWAN, and NB-IoT to support seamless data transfer to cloud-based platforms. In smart buildings, this integration helps reduce cooling energy usage by up to 25% through automated load balancing and predictive maintenance. Case studies from Germany, the UAE, and Singapore highlight how smart cooling meters contribute to meeting sustainability standards like LEED, Green Mark, and EDGE certifications by enabling precise energy monitoring and

control.

## Key Market Players

Siemens AG

Kamstrup A/S

Diehl Metering GmbH

Danfoss A/S

Itron Inc.

Zenner International GmbH & Co. KG

Landis+Gyr AG

B METERS s.r.l.

Engie

Apator SA

## Report Scope:

In this report, the Global Cooling Meters Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Cooling Meters Market, By Technology:

Wired

Wireless

### Cooling Meters Market, By Type:

Mechanical Cooling Meters

Ultrasonic Cooling Meters

Electromagnetic Cooling Meters

### Cooling Meters Market, By Application:

Residential

Commercial

Industrial

District Cooling

### Cooling Meters Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Cooling Meters Market.

Available Customizations:

Global Cooling Meters Market report with the given market data, TechSci Research

*Cooling Meters Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technolog...*

offers customizations according to a company's specific needs. The following customization options are available for the report:

#### Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### 1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### 3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

### 4. VOICE OF CUSTOMER

### 5. GLOBAL COOLING METERS MARKET OUTLOOK

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Technology (Wired, Wireless)
  - 5.2.2. By Type (Mechanical Cooling Meters, Ultrasonic Cooling Meters, Electromagnetic Cooling Meters)
  - 5.2.3. By Application (Residential, Commercial, Industrial, District Cooling)

- 5.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
- 5.3. By Company (2024)
- 5.4. Market Map

## **6. NORTH AMERICA COOLING METERS MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Technology
  - 6.2.2. By Type
  - 6.2.3. By Application
  - 6.2.4. By Country
- 6.3. North America: Country Analysis
  - 6.3.1. United States Cooling Meters Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Technology
      - 6.3.1.2.2. By Type
      - 6.3.1.2.3. By Application
  - 6.3.2. Canada Cooling Meters Market Outlook
    - 6.3.2.1. Market Size & Forecast
      - 6.3.2.1.1. By Value
    - 6.3.2.2. Market Share & Forecast
      - 6.3.2.2.1. By Technology
      - 6.3.2.2.2. By Type
      - 6.3.2.2.3. By Application
  - 6.3.3. Mexico Cooling Meters Market Outlook
    - 6.3.3.1. Market Size & Forecast
      - 6.3.3.1.1. By Value
    - 6.3.3.2. Market Share & Forecast
      - 6.3.3.2.1. By Technology
      - 6.3.3.2.2. By Type
      - 6.3.3.2.3. By Application

## **7. EUROPE COOLING METERS MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Technology
  - 7.2.2. By Type
  - 7.2.3. By Application
  - 7.2.4. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. Germany Cooling Meters Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Technology
      - 7.3.1.2.2. By Type
      - 7.3.1.2.3. By Application
  - 7.3.2. France Cooling Meters Market Outlook
    - 7.3.2.1. Market Size & Forecast
      - 7.3.2.1.1. By Value
    - 7.3.2.2. Market Share & Forecast
      - 7.3.2.2.1. By Technology
      - 7.3.2.2.2. By Type
      - 7.3.2.2.3. By Application
  - 7.3.3. United Kingdom Cooling Meters Market Outlook
    - 7.3.3.1. Market Size & Forecast
      - 7.3.3.1.1. By Value
    - 7.3.3.2. Market Share & Forecast
      - 7.3.3.2.1. By Technology
      - 7.3.3.2.2. By Type
      - 7.3.3.2.3. By Application
  - 7.3.4. Italy Cooling Meters Market Outlook
    - 7.3.4.1. Market Size & Forecast
      - 7.3.4.1.1. By Value
    - 7.3.4.2. Market Share & Forecast
      - 7.3.4.2.1. By Technology
      - 7.3.4.2.2. By Type
      - 7.3.4.2.3. By Application
  - 7.3.5. Spain Cooling Meters Market Outlook
    - 7.3.5.1. Market Size & Forecast
      - 7.3.5.1.1. By Value

- 7.3.5.2. Market Share & Forecast
  - 7.3.5.2.1. By Technology
  - 7.3.5.2.2. By Type
  - 7.3.5.2.3. By Application

## **8. ASIA PACIFIC COOLING METERS MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Technology
  - 8.2.2. By Type
  - 8.2.3. By Application
  - 8.2.4. By Country
- 8.3. Asia Pacific: Country Analysis
  - 8.3.1. China Cooling Meters Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Technology
      - 8.3.1.2.2. By Type
      - 8.3.1.2.3. By Application
  - 8.3.2. India Cooling Meters Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Technology
      - 8.3.2.2.2. By Type
      - 8.3.2.2.3. By Application
  - 8.3.3. Japan Cooling Meters Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Technology
      - 8.3.3.2.2. By Type
      - 8.3.3.2.3. By Application
  - 8.3.4. South Korea Cooling Meters Market Outlook
    - 8.3.4.1. Market Size & Forecast
      - 8.3.4.1.1. By Value

- 8.3.4.2. Market Share & Forecast
  - 8.3.4.2.1. By Technology
  - 8.3.4.2.2. By Type
  - 8.3.4.2.3. By Application
- 8.3.5. Australia Cooling Meters Market Outlook
  - 8.3.5.1. Market Size & Forecast
    - 8.3.5.1.1. By Value
  - 8.3.5.2. Market Share & Forecast
    - 8.3.5.2.1. By Technology
    - 8.3.5.2.2. By Type
    - 8.3.5.2.3. By Application

## **9. MIDDLE EAST & AFRICA COOLING METERS MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Technology
  - 9.2.2. By Type
  - 9.2.3. By Application
  - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
  - 9.3.1. Saudi Arabia Cooling Meters Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Technology
      - 9.3.1.2.2. By Type
      - 9.3.1.2.3. By Application
  - 9.3.2. UAE Cooling Meters Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Technology
      - 9.3.2.2.2. By Type
      - 9.3.2.2.3. By Application
  - 9.3.3. South Africa Cooling Meters Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value

#### 9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Technology

9.3.3.2.2. By Type

9.3.3.2.3. By Application

## **10. SOUTH AMERICA COOLING METERS MARKET OUTLOOK**

### 10.1. Market Size & Forecast

10.1.1. By Value

### 10.2. Market Share & Forecast

10.2.1. By Technology

10.2.2. By Type

10.2.3. By Application

10.2.4. By Country

### 10.3. South America: Country Analysis

#### 10.3.1. Brazil Cooling Meters Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Technology

10.3.1.2.2. By Type

10.3.1.2.3. By Application

#### 10.3.2. Colombia Cooling Meters Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Technology

10.3.2.2.2. By Type

10.3.2.2.3. By Application

#### 10.3.3. Argentina Cooling Meters Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Technology

10.3.3.2.2. By Type

10.3.3.2.3. By Application

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS AND DEVELOPMENTS**

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

## **13. COMPANY PROFILES**

- 13.1. Siemens AG
  - 13.1.1. Business Overview
  - 13.1.2. Key Revenue and Financials
  - 13.1.3. Recent Developments
  - 13.1.4. Key Personnel
  - 13.1.5. Key Product/Services Offered
- 13.2. Kamstrup A/S
- 13.3. Diehl Metering GmbH
- 13.4. Danfoss A/S
- 13.5. Itron Inc.
- 13.6. Zenner International GmbH & Co. KG
- 13.7. Landis+Gyr AG
- 13.8. B METERS s.r.l.
- 13.9. Engie
- 13.10. Apator SA

## **14. STRATEGIC RECOMMENDATIONS**

## **15. ABOUT US & DISCLAIMER**

## I would like to order

Product name: Cooling Meters Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (Wired, Wireless), By Type (Mechanical Cooling Meters, Ultrasonic Cooling Meters, Electromagnetic Cooling Meters), By Application (Residential, Commercial, Industrial, District Cooling), By Region & Competition, 2020-2030F

Product link: <https://marketpublishers.com/r/CE6918D72B25EN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/CE6918D72B25EN.html>