ZTM-2025 Smart LCD Thermometer

Product Overview

ZTM-2025 Smart LCD Thermometer centers on "Precise Sensing + Intelligent Management." Equipped with a high-definition LCD display, it presents critical information—temperature data, device status, and time—at a glance. The screen remains clearly visible even in bright light, and its intuitive interface requires no complex training to operate. The device incorporates a real-time clock function that not only displays the current time but also automatically timestamps each temperature measurement, ensuring accurate data traceability. It is widely applicable for melt temperature monitoring in industries such as smelting, casting, and heat treatment, meeting the refined management needs of industrial production and experimental monitoring scenarios.

Product Advantages

Multi-functional integration：Combines display, storage, export, and wireless transmission into one unit, enabling the entire temperature monitoring process without requiring additional equipment.

Industrial-grade reliability：Featuring a 304 stainless steel housing with electromagnetic interference resistance design, it withstands harsh industrial environments while delivering stable measurement accuracy.

Operational Convenience：LCD display + shortcut key design, enabling external configuration of furnace numbers, package numbers, equipment addresses, and other parameters.

Data Security：Dual data backup (local storage + cloud synchronization), no data loss during power outages, meeting quality traceability requirements.

Long-lasting battery life: Equipped with a high-capacity lithium battery and featuring an automatic shutdown after 2 minutes of inactivity, extending battery life and reducing the need for frequent charging.

Key Indicators

◆ High data collection accuracy, with measurement precision within 1.5°C.

◆ Wide measurement range (0 to 1999°C).

◆ Resolution: 1°C.

◆ After 2 minutes without signal input, the power supply will automatically disconnect.

◆ Features alarm functions for open-circuit, over-range, and low power supply voltage.

◆ Operating Environment: Temperature -20 to 70°C, Humidity 0 to 85% RH (non-condensing).

◆ Power Supply: 6000mAh lithium battery (rechargeable) + external DC5V.

◆ Dimensions: 330mm × 175mm × 115mm.

◆ Compatible with 5 types of thermocouples

Thermocouple Type	Measurement Range (°C)	Suitable for	Note
S	400～1769	Molten steel, iron, and copper	Single platinum-rhodium
R	400～1769	Molten steel, iron, and copper	Single platinum-rhodium
B	400～1820	High-temperature molten steel	Platinum-rhodium
WRe3/25	0～1999	Steel, molten iron	Tungsten Rhenium
K	0～1000	Aluminum and zinc melt	Nickel-Chromium-Nickel-Silicon

◆ Standard configuration: 1.6-meter probe (2.4-meter probe available as an option).

◆ Data Export Interface: TTL (optional).

◆ Wireless transmission method: LoRa (optional).

◆ Wireless transmission to PC end enables real-time data push to cloud platform, facilitating remote monitoring and centralized data management (optional).