Portable Thermometer (DPT)



Product Overview

DKKI Portable Thermometer is an advanced and reliable solution for precise temperature measurement in the most demanding industrial environments, including foundries and smelting plants. This robust instrument is designed to measure molten metal temperatures—from steel to non-ferrous metals—across a wide range of 500 to 1800°C, with full compatibility for standard immersion thermocouples types B, S, R, and K. Its design complies with the international IEC 60584-1 standard and incorporates an advanced digital signal processing algorithm. This technology automatically detects the thermal equilibrium point and filters out transient fluctuations, delivering accurate, stable, and repeatable results in just a few seconds. The "Final result Capture & Hold" function freezes the final reading on a high-brightness, 4-digit, 7-segment display, ensuring clear readability even in low-light conditions. Furthermore, an integrated audio-visual alarm system instantly notifies the operator of the device status, correct sensor connection, and successful measurement completion. The device is powered by a rechargeable lithium-ion battery, supporting continuous use throughout work shifts. It features a battery level indicator and provides a visual low-battery warning to the operator. The DKK Portable Thermometer is supplied with an ergonomic and durable lance, ensuring safe, reliable, and efficient operation in challenging industrial settings.

Key Features

- High precision measurement with 1°C resolution.
- Automatic stable temperature detection.
- Multi-sensory audio and visual alerts.
- Compatible with B, S, R, K immersion thermocouples.
- Rugged design for harsh industrial conditions.
- Long-lasting rechargeable battery.
- Automatic battery status alert system.

Why DKKI

- Proven success for over three decades
- ISO 9001:2015 certified quality
- In-house testing under real operating conditions
- Free expert support and comprehensive training
- On-site consulting and troubleshooting
- Fast order processing with flexible logistics
- Standard products, customizable options
- Transparent partnerships that build trust
- Proactive customer engagement

Application Areas

- Electric Arc Furnaces (EAF)
- Basic Oxygen Furnaces (BOF)
- Induction Furnaces
- Secondary Metallurgy and Foundries
- Continuous Casting, Ingot Casting
- Cast-Iron Foundries
- Non-Ferrous Metals Melting and Foundries

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ISO 9001:2015
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Technical Specifications

Parameter	Details
Thermocouple Input Options	K,B,S,R
Measurement Range	up to 1820°C
Accuracy	±1°C
Resolution	1°C
Temperature Readout	4-Digits High-Brightness 7-Segment Red Color
Status Indicators	3 LEDs: Green (Ready) - Yellow (In Progress) - Red Color (Measurement Completed)
Hold Function	Freezes peak temperature reading
Data Logging	Last 16 temperature readings
Power Supply	Rechargeable batteries (Li-ion/Ni-MH) plus AC adapter
Environmental Rating	Dust/Splash resistant
Operating Temp Range	Minus 10°C to Plus 50°C
Cold Junction Compensation	Ambient temperature sensor for cold junction compensation
Typical Measurement Time	3 - 6 seconds after immersion
Primary Application	Molten Steel / Cast Iron / Copper / Aluminum / Various Metal Alloys

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