Wall-mount Thermometer (DST)



Product Overview

DKKI Stationary Thermometer delivers precision molten metal temperature measurement with state-of-the-art versatility. Engineered for demanding industrial environments, it supports both wired and wireless lances for optimal flexibility across operating conditions. The system measures temperatures using Type R or S thermocouples as standard (Type B/K available upon request), ensuring compatibility with diverse metallurgical processes. Its microprocessor-based technology employs intelligent averaging and plateau detection methods for unmatched accuracy. All measurements are securely stored in the instrument's recording memory, capturing time-stamped historical data and values for traceability. Seamlessly integrate with plant operations via direct PLC communication and Ethernet connectivity to any Windows-based PC—enabling real-time parameter adjustments, settings customization, and instant access to measurement traces, making it the ultimate solution for foundries seeking accuracy, efficiency, and safety.

Key Features

- Thermocouple Options: Type R/S (standard); Type B/K (available upon request)
- Measurement Technology: Microprocessor-based with averaging & plateau detectionData Tracking: Time-stamped data logging
- PLC Integration: Facilitates plant PLC connectivity
- PC Connectivity: Ethernet
- Lance Compatibility: Wired (standard); Wireless (available upon request)
- Protection: Shielding against EMI and power fluctuations
- Communication Protocols: Ethernet, RS-485 (standard); 4-20mA, Modbus, RS-232, CAN (available upon request)
- Operator Interface: Large display, triple-signal indicator light, siren

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), and Induction Furnaces,
- Secondary Metallurgy and Foundries
- Continuous Casting, Ingot Casting

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Technical Specifications

Parameter	Details
Measuring Range	600°C to 2000°C
Accuracy	±1°C
Resolution	0.1°C
Standard Thermocouple Types	Type R / Type S
Additional Thermocouple Types	Type B / TypeK (configurable)
Calibration Standards	IEC/EN 60584-1 compliant NIST-traceable optional
Response Time	3 - 8 seconds
Measurement System	Microprocessor-based
Measurement Algorithm	Dynamic averaging with adaptive plateau detection
Sampling Rate	20 Hz (real-time)
Memory Capacity	Over 10000 readings with millisecond timestamps
Data Fields	Temperature
Export Formats	CSV / XML / SQL
Data Interface	USB / RS-232
Analog Outputs	isolated 4-20mA configurable range
Digital Interfaces	RS-485 Modbus RTU / Ethernet TCP/IP
PLC Integration (Direct communication)	Siemens / Rockwell / Schneider
Power Requirement	230V AC, 50Hz
Power Consumption	<120VA
Isolation	1.5 kV AC (input / output / power)
Enclosure	IP42
Operating Temperature	minus 30°C to plus 70°C
Display size	50 x 70 mm X 4
Display Technology	Seven segments Red Color
Mounting Options	Wall / Panel mount
Dimensions (H x W x D)	270 mm X 380 mm X 145 mm
Weight	7.3 kg
Graphical User Interface	Windows-based ConfigTool software (included)
Remote Access Interface	Web server for browser-based configuration (HTTPS / SSL)
Security	Doorlock with spare key

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