

Portable Melting Thermometer —

User Manual

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1. Product Overview

This series of portable melting thermometers works with S, R, D and B type fast thermocouples for precise, rapid temperature measurement in various melting scenarios. Designed for harsh, high-temperature furnace environments, it features a shock-resistant high-brightness LED display and an all-metal housing — durable and easy to carry for multi-furnace inspection.

2. Main Technical Parameters

Item	Specification
Compatible thermocouple types	S / R / D / B
Display	High-brightness LED digital display
Housing	All-metal housing, shock & heat resistant
Compatible probes	602 series fast thermocouples
Applications	BOF, EAF, hot metal, non-ferrous melts — on-site measurement and spot checks

3. Operation

- Power on and self-check; select the thermocouple type matching the fast thermocouple in use.
- Mount the fast thermocouple on the lance; when the ready test light turns on, contact is good and measurement may proceed.
- Immerse the fast thermocouple 100–300 mm below the slag layer with fast, steady and accurate motion; lift the lance immediately after the reading.
- For continuous measurement, watch probe consumption and replace probes in time.

4. Cautions

- Immersion of the fast thermocouple in molten steel must not exceed 6 s, otherwise the test lance may burn out.
- Handle with care; avoid strong impact and water ingress. Remove the battery and store in a dry place when not used for a long time.
- Use probes and accessories supplied by our company to ensure accuracy.

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