

Wireless Temperature Lance —

User Manual

NANJING XINQIYUAN DETECTION
EQUIPMENT CO., LTD.

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1. Product Overview

The wireless temperature lance transmits furnace-side measurement data wirelessly to the large-screen pyrometer, the melting data collection system or the remote office transmission system — free from cables, making high-temperature furnace-side operation safer and more efficient. It works with our 602 series fast thermocouples and large-screen pyrometers.

2. Main Technical Parameters

Item	Specification
Data transmission	Wireless
Transmission distance	Lance to display: ≥ 300 m in open areas, depending on site obstacles and electromagnetic environment
Compatible probes	602 series fast thermocouples (S / R / B / W3/25)
Companion devices	Large-screen pyrometer, melting data collection system, remote office transmission system, 10-inch display

3. Operation

- Mount the fast thermocouple firmly on the lance — no looseness allowed.
- Power on and wait until the lance pairs with the display; the ready test light indicates the system is ready.
- Immerse the probe 100–300 mm below the slag layer; lift immediately after the reading — immersion in molten steel must not exceed 6 s.
- Data uploads to the display automatically and can be aggregated to the office via the system for recording and traceability.

4. Cautions

- Charge in time to avoid low-battery transmission issues; charge at least once a month during long storage.
- Avoid drops, water ingress and proximity to strong magnetic equipment.
- If the transmission distance drops noticeably, check site obstacles or contact our after-sales service.

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