TC/O_2 Calibrator



Product Overview

DKKI TC/O_2 Calibrator is a portable, precision tool designed for verifying disposable thermocouple and zirconia oxygen probe systems in steelmaking and foundry operations. This device can simulate accurate temperature EMF signals within 1550-1750 °C range and oxygen EMF signals within -200 to +200 mV range. With manual cold junction entry, it helps QA and maintenance teams prevent costly errors and ensure reliable readings. Rugged, glove-friendly, and IP54-rated, it's ideal for tap floor or lab use.

Key Features

- Dual-mode emulation for thermocouples and oxygen probes
- Manual cold junction entry for flexible temperature simulation
- Preset and custom calibration points for versatile testing
- Traceable factory calibration ensures consistent measurement accuracy
- Rugged IP54 housing withstands harsh industrial environments
- Sunlight-readable display supports outdoor and shop-floor use
- Long-life battery with Barrel Jack Socket
- Isolated outputs protect connected instruments from damage

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

- Steel mills verifying thermocouple and oxygen probe systems
- Foundries performing tap floor instrument integrity checks
- QA labs conducting traceable calibration and documentation
- Maintenance teams troubleshooting cables and lance assemblies
- Training centers simulating probe behavior for technician education

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Technical Specifications

Parameter	Description
TC Range	1550-1750 °C for Type R/S/B probes
TC Accuracy	±0.02% plus 6 microvolts deviation
Cold Junction Entry	Manual input of ambient temperature
O_2 EMF Range	-200 to +200 millivolts output range
O_2 Accuracy	±0.02% plus 0.5 millivolts deviation
Display Type	IPS screen / readable in direct sunlight
Power Supply	Rechargeable battery with long operation time

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