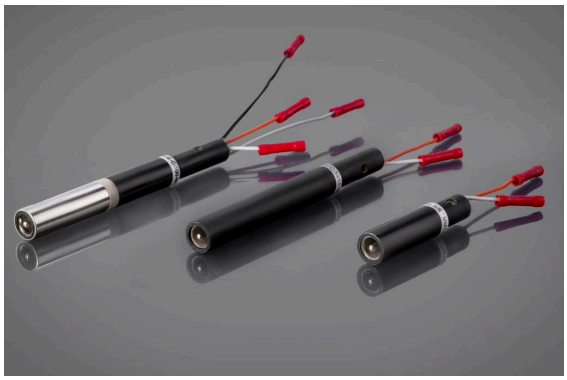
# Contact Block



## Product Overview

DKKI Contact Blocks are engineered for reliable electrical and mechanical connection between immersion probes and measurement lances in molten metal environments. Built to withstand extreme temperatures and harsh operating conditions, they ensure stable performance in Electric Arc Furnaces (EAF), Basic Oxygen Furnaces (BOF), Induction Furnaces (IF), Ladle Metallurgy Furnaces (LMF), and casting areas. Available in both manual and automatic configurations, these blocks support 2-wire thermocouple probes and 4-wire oxygen probes. Internal wiring is precisely matched to thermocouple types R, S, and B, compliant with IEC 60584-1 standards. Their modular design and robust construction make them ideal for high-accuracy steelmaking applications.

## Highlighted Features

- Matched extension wires: Precisely correspond to thermocouple type for accurate signal transmission.
- Advanced welded connections: Utilizes high-tech welding techniques for direct, reliable lead wire terminations (eliminating solder and third-party components).
- Robust construction: Features a wear-resistant steel housing and high-temperature polymer insulation (rated 250°C) for enhanced durability.
- Modular design: Enables quick and easy replacement within the measurement 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 requiring stable probe connectivity
- Basic Oxygen Furnaces with high-temperature measurement needs
- Induction Furnaces using manual immersion thermocouple probes
- Ladle Metallurgy Furnaces needing oxygen and temperature readings
- Casting areas demanding durable and modular contact interfaces

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## Technical Specifications

| Parameter | Description |
|---|---|
| Probe Compatibility | Thermocouple types R / S / B supported |
| Wiring Configuration | 2-wire (TC) and 4-wire ($O_2$ + TC) options |
| Construction Material | Steel housing with high-temp polymer insulation |
| Temperature Rating | Insulation rated up to 250 degrees Celsius |
| Connection Method | Welded lead wires for secure termination |
| Standard Compliance | IEC 60584-1 thermocouple compatibility |
| Mounting Type | Manual or automatic lance integration |
| Outer Diameter Options | 16 mm manual / 27 mm automatic |
| Length Options | Available in 50 mm / 70 mm / 100 mm sizes |
| Replacement Design | Modular for fast and easy system swap |

## Ordering Guide

| Type | Compatibility | L [mm] | O.D[mm] |
|---|---|---|---|
| MMTC-10/13 | Manual Thermocouple Probe type R and S | 50 / 100 | 16 |
| MMTC-30/6 | Manual Thermocouple Probe type B | 50 / 100 | 16 |
| EMK-E-C | Manual Thermocouple / Oxygen Probe type R and S | 100 | 16 |
| ML-EMKC | Automatic Thermocouple / Oxygen Probe type R and S | 70 | 27 |



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