



MICROK 70 TEMPERATURMESSBRÜCKE

Mit der Produktfamilie MicroK erreichen Sie die technischen Grenzen in Bezug auf Genauigkeit und Stabilität. Gepaart mit modernster Technik, wie z. B. USB-Port und Touchscreen ist die MicroK die erste Wahl für „High End“ Kalibrierungen. Die Produktfamilie MicroK besteht aus vier Geräteklassen sowie dem Umschalter MicroKanner.

- **High End Temperatur-Messbrücke**
- **Messunsicherheit: 70µK (Pt25 oder Pt100)**
- **SPRT's, Thermoelemente und Thermistoren, Widerstands thermometer, Thermoelemente und Thermistoren**

SKU: KK-795

Category: [Temperatur-Messbrücke](#)

Tags: [ISOTECH](#), [Messbrücke](#),

[Präzisionsthermometer](#),

[Temperaturmessbrücke](#), [Thermometer](#),

[Widerstandsmessbrücke](#)

BESCHREIBUNG

Die Produktfamilie MicroK besteht aus vier Geräteklassen sowie dem kompatiblen Umschalter MicroKanner.

- **Widerstandsthermometer, Thermoelemente und Thermistoren**
- **keine Drift bei Widerstandsthermometern**
- **frei einstellbarer Messstrom 0-10mA**
- **Warmhaltestromquelle 0-10mA Messstrom (einstellbar)**
- **70 μ K bei Pt25 Normalthermometern**
- **10mK bei Gold-/Platinthermoelementen**
- **Messzeit < 2 Sekunden**
- **Touchscreen & USB**

DOWNLOAD

**Precision Thermometer
microK**

- High Accuracy – 0.001 °C class with 0.001 °C
- NIST, NPL, BIPM, IEC, Thermistors and Thermocouples
- Reliable 21st Century 100% Solid State Design

The microK family of precision thermometry bridges sets a completely new measurement technique to achieve accuracy to better than 0.01 ppm.

There are models to suit all levels of temperature ranging from National Measurement Institute to those wanting a solution to those non-stationary temperature measurements in a range of applications.

In addition to making the best resistance measurements, the microK makes high accuracy thermocouple measurements with a range uncertainty of $\pm 0.01\mu V$. The microK can be used with all standard thermocouple types including J, K, S, E, B, Standard Thermocouples, Industrial PRTs and thermistors.

First introduced in 2006 the microK has become the instrument of choice at the world's leading NPL and many international laboratories. Standard models include IEEE-488 Dermal Purpose Interface Bus as well as RS232 and USB. The microK 25 and microK 500 also feature an Ethernet port and can be interfaced and controlled across a LAN.

Performance by Design – Drift Free

"Performance by Design" was the driving and guiding spirit in the development of the microK. On Day 1 a decision was made, "No resistor" (just as used on AC Bridges) because (a) too bulky, (b) no self-temperature adjustment, (c) self calibration" full performance by design. The microK achieved its historical reputation by design, not adjustment and a complete drift free.

To be clear, as a solid bridge the microK is drift free. This is a benefit of the substitution topology used and provides one of the microK's most exciting features. It is inherently drift free.

In cases where compensation or adjustment circuits, it doesn't have software offsets, it doesn't self-calibrate, it never needs adjusting, never needs a service engineer, it's 100% measurement it is drift free by design.

No more details need, "Using a Substitution Measurement Topology to Eliminate the Effect of Common Mode Errors in Resistance Measurements used in Thermocouple Monitoring" available on the website. Details which also describe why the performance of the microK is superior to DC powered instruments.

Accuracy

Model	Ratio Accuracy	Accuracy (Ratio Error)	Key Features
microK 75	0.01	0.01	■ Resistance Thermometry 0.1 to 0.250 to 1000 20:1 to 10000:1 ratio, Industrial PRTs, Thermistors.
microK 100	0.01	0.01	■ Package Measurement Substitution Standard, High-precision, Precision, Programmable and Self-Calibration in 100ms.
microK 250	0.01	0.01	■ Drift-Free Modes Resistor and Thermocouple, Ratio, Resistance, Voltage, μV , μV .
microK 500	0.01	0.01	■ Remote 0.001 μV in 100ms resolution.

* At Ratio: 0.01 to 100

[Datenblatt microK](#)

microK
User Maintenance Manual/Handbook

Issue 1.01
Applies to: microK 75 and microK 125
Software version: 1.4.23+
Firmware version: 1.23+

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The company is always willing to give technical advice and assistance where appropriate. Equally, because of the programme of continual development and improvement we reserve the right to amend or alter characteristics and design without prior notice. This publication is for information only.

[Handbuch
microK 75 und 125](#)

microK
User Maintenance Manual/Handbook

Issue 1.01
Applies to:
Models: microK 250 and microK 500
Software version: 1.4.23+
Firmware version: 1.21+

NPL
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