

microKanner: Channel Expander

The microKanner can be used with any member of the microK family to add further channels, up to a maximum of 90 expansion channels.

Easy to Use: The use of plug-and-play technology means that the extra channels appear automatically on your microK bridge when connected to a microKanner. You can configure the new input channels in exactly the same way as any of the microK's existing inputs (through the microK's touch screen or a PC, via an RS232 connection). You just plug in a microKanner and immediately gain the benefit of the additional channels, making this the easiest channel expansion system of its type.

Accurate: The microKanner replicates the input system of the microK bridge for all 10 of its input channels. Measurements made with a microKanner are therefore to the same accuracy as the microK bridge it is connected to. By adding further scanners the microK system can be expanded to 92 channels without losing measurement performance.

Versatile: Like the microK bridge, the microKanner works with PRTs, thermocouples and thermistors giving you unparalleled flexibility.

Keep-Warm Currents: The microKanner has 10 individually programmable keep-warm current sources to maintain the power in PRTs when they are not being measured, eliminating uncertainty caused by power coefficients.

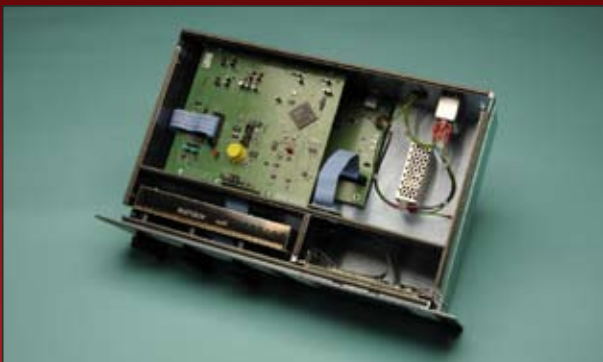
Cable Pod™ Connector System: The connectors accept 4mm plugs, spades or bare wires. The standard



$\frac{3}{4}$ " separation is compatible with standard 4mm to BNC adaptors, so you can use thermometers with any standard termination type. The Cable Pod™ connector system uses gold-plated, tellurium-copper to give the lowest possible thermal EMF and the best measurement uncertainty.

Reliable: Like the microK, the microKanner uses the latest semiconductor technology for channel selection and signal routing. This completely solid-state design therefore provides the highest possible reliability.

Model	microKanner
Channels	10
Keep-Warm Currents	0-10mA \pm 0.4% of value, \pm 7 μ A, resolution 2.5 μ A
Input connectors	Cable Pod™ connector accepting: 4mm plugs, spades or bare wires
Contact material	Gold plated tellurium copper
Interface	RS232 (9600 baud)
Operating conditions	15-30°C / 50-85°F, 10-90% RH (for full specification) 0-50°C / 32-120°C, 0-99% RH (operational)
Power	88-264V (RMS), 47-63Hz (Universal) 10W maximum, 1.2A (RMS) maximum
Size	520mm x 166mm x 300mm / 20.5" x 6.6" x 11.9" (W x D x H)
Weight	12.6kg / 28lb



< Reliable

Before the microK, instruments with this level of performance had to use mechanical relays. The microK breaks the mould by using the latest semiconductor devices to provide a completely solid state solution. To reduce the component count high density silicon integration technology is used (FPGA). If you have ever seen inside another instrument in this performance class you may have been concerned about long term reliability and servicing cost. Compare this with the inside of the microK

microKanner

- **Performance** - zero uncertainty contribution
- **Flexibility** - supports all sensor types (PRTs, thermocouples & thermistors)
- **Keep-warm currents for PRTs** - individually programmable
- **Ease of use** - plug-and-play... new channels added by the microKanner just appear in the existing operator interface on the microK
- **Input channels** - up to 90 expansion channels
- **Reliability** - completely solid-state (no relays)



PC Interfaces >

All the microK models have USB Host, RS232 Serial and now IEEE-488 GPIB (General Purpose Interface Bus). The microK is compatible with Isotech I-Cal EASY software and is easily controlled from either the RS232 or IEEE port. The command set uses the SCPI (Standard Commands for Programmable Instruments) protocol. Any microKanners are controlled via the microK port, easing automation - no separate connection from the PC to the scanners is necessary. The microK 70 and 125 models also feature an Ethernet port and the microK desktop can be controlled across a LAN or WLAN allowing remote control and monitoring from either a PC in the lab, or should you choose, from anywhere in the world.

