

DATASHEET

microKanner-913-HC

Isotech

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-200 to 1800°C

Channel Expander microKanner

- Expandable to 90 channels
- Supports PRTs, thermocouples & thermistors
- Plug-and-play operation

The microKanner can be used with any member of the microK family to add further channels, up to a maximum of 90 expansion channels, 913-HC is styled to suit the microK².

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 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 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	913-HC microKanner
Channels	10
Keep-Warm Currents	0-14.2mA $\pm 0.4\%$ of value, $\pm 7\mu\text{A}$, resolution 2.5 μA
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

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)



< Expandable

The microK has three input channels, to allow best practice of having two standard thermometers and still have a channel free for the thermometer under test. Additional expansion channels can be added in blocks of 10 to a maximum of 90 expansion channels. The microKanner adds no additional uncertainty and each channel is individually programmable from the touch screen. Any channel can be set for any thermometer type or for an external resistor.