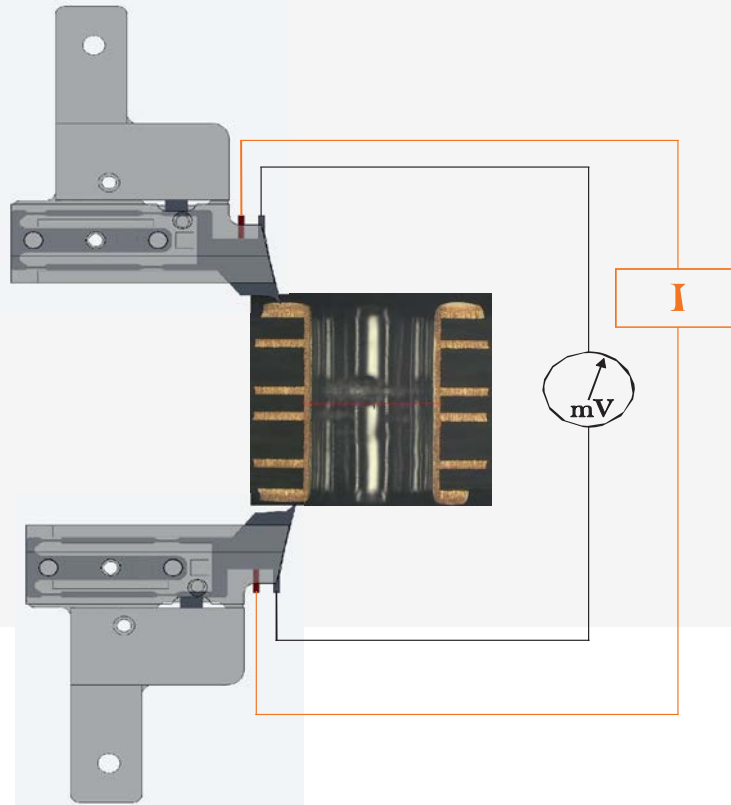


4 Wire Kelvin Specification



4 Wire Kelvin Test is used specially for testing very small resistance of Interconnect Via Hole and through holes. It can measure low resistance correctly without being affected by test lead or contact resistance. Conventional test use single probe tips which only have one wire and one probe on each tip. For 4 Wire Kelvin Test, dual probe tips which have two wires and two probes on each tip are used.

The first testing pair generates a constant current and the second testing pair measures the voltage. As there is no current flow through the second testing pair, the contact resistance is completely compensated and the “real resistance” of the trace or via hole to measure is precisely determined.

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4 Wire Kelvin Specification

SPECIFICATION

Low resistance measurement range	0.5mOhm – 25 Ohm
Low Resistance accuracy	+/- 0.0001 mOhm (10µmΩ)
Speed of single 4WK measurement	<20ms
Repeated measurement accuracy - on single component	>98.5
Repeated measurement accuracy - across multiple machines	>98%

OPTIONS

Basic Flying Probe to Kelvin Ready option/upgrade	Kelvin Ready option to Kelvin Functional upgrade	Basic Flying Probe to Kelvin functional option/upgrade
<ul style="list-style-type: none"> o Purchase your Gardien flying probe and have Kelvin ready pre-wiring added at the factory. 	<ul style="list-style-type: none"> o Upgrade your pre-wired Kelvin Ready Flying Probe to Kelvin Functional including all necessary hardware. This upgrade is performed on-site. 	<ul style="list-style-type: none"> o Purchase your Gardien flying probe and have Kelvin functionality and all hardware added at the factory.
<ul style="list-style-type: none"> o Stagger your upgrades on existing equipment by getting Kelvin ready pre-wiring performed on-site. 		<ul style="list-style-type: none"> o Upgrade your existing equipment by getting Kelvin functionality and all hardware added on-site.

MACHINES SUITABLE FOR UPGRADE

<ul style="list-style-type: none"> o Gardien G50
<ul style="list-style-type: none"> o Gardien G70
<ul style="list-style-type: none"> o Loc8 and Loc8 Lite
<ul style="list-style-type: none"> o Evo2
<ul style="list-style-type: none"> o Evo3