

SEE THE CURRENT OTHERS CAN'T.

AC and DC.
Down to 50 μ A.
One probe.

Models K100 & K110 — AC/DC MicroProbes



130⁺
YEARS
BEHIND EVERY
MEASUREMENT
YOU TAKE

Technical Hotline: (800) 343-1391
www.aemc.com

AEMC[®]
INSTRUMENTS
CHAUVIN ARNOUX GROUP

THE PROBLEM

You're chasing a current too small to find. A parasitic draw bleeding a battery overnight. A sleep-mode circuit pulling microamps it shouldn't. A 4–20 mA loop you can't break to measure. Your standard clamp shrugs and reads zero — because most AC/DC clamps simply don't go below a few milliamps. So you're back to breaking the circuit, inserting a shunt, and hoping you didn't change the very thing you're trying to measure.

THE SOLUTION

The K100 and K110 Microprobes clamp on and read currents down to 50 μ A — roughly a hundred times lower than the usable floor of the most common AC/DC clamps on the market — without breaking the circuit. AC and DC, no range switching, no mode toggling. Clamp the conductor, watch the waveform on your scope or the number on your DMM, and find what was invisible a minute ago.



The K110 Microprobe accurately measures levels of AC low currents on a circuit board and connects to an oscilloscope for an analysis in real time.

KEY BENEFITS

Microamp-class sensitivity: Catch parasitic draws, leakage, and sleep-mode currents your existing clamp reads as zero.

True AC and DC in one tool: No second instrument, no mode juggling — measure total current (AC + DC) in a single clamp-on.

Non-intrusive 4–20 mA loop reads: Verify process-control loops without ever breaking the circuit or risking a trip.

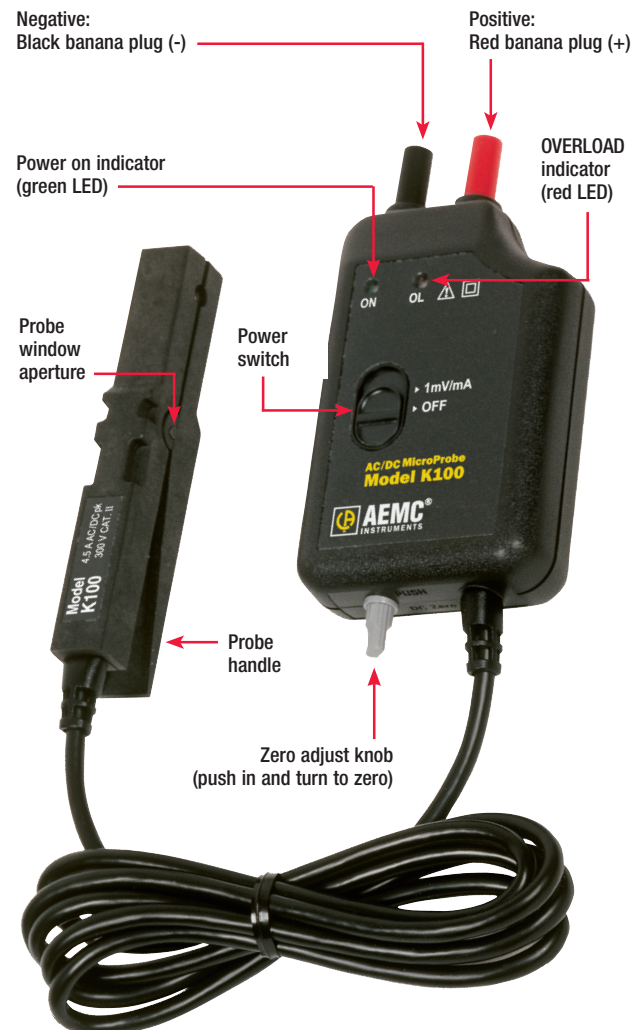
Slim jaw for crowded wiring: Reach a single conductor (up to 4.5 mm) buried in a dense harness or packed control panel where bigger clamps won't fit.

Works with the gear you already own: Banana plug-ready (K100) for any DMM, or scope-ready (K110) for real-time waveform capture — no proprietary display required.



Measure low level DC currents with high resolution results.

ANATOMY OF THE K100 MICROPROBE



APPLICATIONS

Battery & Low-Power Electronics (IoT, wearables, embedded)

For embedded & hardware design engineers

Read sleep-mode currents down to 50 μ A your clamp calls zero.

EV & E-Mobility

For battery / BMS & validation engineers

AC and DC, pack to peripheral, without breaking the circuit.

Automotive Electronics

For diagnostic techs & vehicle electronics engineers

Track parasitic draws into the microamps, fast.

Electronics R&D & Test Labs

For design, bring-up & validation engineers

Scope-ready waveform capture at the bench, low-level signals intact.

Industrial & Process Control

For controls engineers & field service techs

Measure 4–20 mA loops without ever breaking the loop.

Energy & Renewables

For solar / PV & commissioning engineers

Catch low string and standby current, AC or DC, non-intrusively.

Find YOUR invisible current.



Scan this QR code to watch an overview video of the K100 & K110 microprobes.



Call the Technical Hotline: (800) 343-1391

— talk to an applications engineer about your measurement, free.



Scan this QR code to visit www.aemc.com to download the datasheet and find your authorized AEMC® distributor.

ORDERING INFORMATION

CATALOG NO.	DESCRIPTION
1200.67	AC/DC Microprobe Model K100 (4.5 A, 1 mV/mA) Includes 9 V battery and user manual
2111.73	AC/DC Microprobe Model K110 (450 mA, 10 mV/mA) Includes 9 V battery and user manual
1017.45	Adapter – 4 mm Non-insulated for Safety Leads (Optional Accessory)
2111.32	Banana (Male) – BNC (Female) Adapter (Optional Accessory)

Additional Industries Served by K100 & K110: Avionics & Aerospace, Medical Devices, Data Centers, Defense, Marine, Drones / UAS — for the maintenance techs, validation labs, and design engineers in each industry. Visit www.aemc.com/k-series to learn more.

SPECIFICATIONS

MODELS	K100	K110
ELECTRICAL		
Current Range	(0 to ± 4) A _{DC} (0 to 3) A _{MS}	(0 to ± 400) mA _{DC} (0 to 300) mA _{MS}
Output (V _{out})	1 mV/mA	10 mV/mA
Resolution	AC: 200 µA typical DC: 100 µA typical	AC: 150 µA typical DC: 50 µA typical
Accuracy	DC: 1 mA to 2 A: 1% reading ± 300 µA (2 to 4) A: 2% reading ± 500 µA AC: 2% reading ± 500 µA	DC: (1 to 200) mA: 0.5% reading ± 150 µA (200 to 400) mA: 1.5 % reading ± 200 µA AC: 1% reading ± 300 µA
Output Noise	< 100 mV, DC to 3 kHz	
Frequency Response	DC to 2 kHz (@ -3dB sine)	DC to 1.5 kHz (@ -3dB sine)
Power Source	9 V Alkaline battery	
MECHANICAL		
Dimensions	Probe: (4.4 x 0.6 x 1.0) in (111 x 15 x 25) mm; Module: (4.9 x 2.5 x 1.1) in (124 x 64 x 28) mm	
Weight	9 oz (250g)	
Index of Protection	IP 40 per IEC 529	
ENVIRONMENTAL		
Operating Temperature	(-14 to 131) °F (-10 to 55) °C	
Storage Temperature	(-40 to 176) °F (-40 to 80) °C	
SAFETY		
Safety Rating	EN 61010-1, 300 V CAT II	
CE Mark	Yes	



CATALOG



FAMILY OF PRODUCT BROCHURES

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