





usb graphing picoammeter

9103

specifications

Resolution & Accuracy per Range

Range	Resolution	Accuracy / Offset (18° – 28°C, 0 - 70% RH)*
2 nA	100 fA	0.5 ± % +500 fA
20 nA	1 pA	0.5 ± % +3 pA
200 nA	10 pA	0.4 ± % +20 pA
2 μΑ	100 pA	0.4 ± % +200 pA
20 μΑ	1 nA	0.4 ± % +2 nA
200 µA	10 nA	0.4 ± % +20 nA
2 mA	100 nA	0.4 ± % +200 nA

*Temperature Coefficient: 0°–18°C & 28°–50°C. For each °C, add 0.1 × (% rdg + offset) to accuracy spec.

General:

USB Interface	160 mW power consumption	
2 nA Min. DAC Resolution	2 nA Min. : 0.1 pA, 2 mA Min. 100 nA	
Sampling Rate	Standard: 40 reads/sec. High-Speed option: 500 reads/sec.	
Range	2 nA to 2 mA with 100 fA resolution	
Input Protection	50 mA (fused)	
Recorder Output Voltage	± 2.000 V per range not available with High-Voltage option	
Warm-up	1 hour to rated accuracy	
Environment	Operating 0° C to 50 ° C	
Mechanical Dimensions	55H x 170W x 165L (mm) 2.11H x 6.68W x 6.30L (inches)	
Net. Weight	0.816 kg / 1.5 lbs	
Connections Standard-Voltage	Input: Isolated BNC. Recorder Option Analog Output: Banana jacks	
Connections High-Voltage	HV Input: SHV HV Reference: MHV	
Bias Options	No Bias; Internal (fixed +90 V DC); External (BNC) not available with High-Voltage option	
Safety	Conforms to USB Power Specification - for use by qualified personnel who are trained in the use of test and measurement instrumentation	
High Voltage Option	5 kV DC Isolation	
Accessories Included	Installation and operation manuals, USB driver,, Actuel software, USB power cable, low-noise BNC cable (<i>not available with HV option</i>)	

All specifications are subject to change without notice.



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