

TEKTRONIX

A621

The Tektronix A621 is a passive, high-current AC current probe designed for use with oscilloscopes and digital multimeters. It measures AC currents from 100 mA to 2000 A peak over a frequency range of 5 Hz to 50 kHz. Featuring a large clamp-on jaw, it accommodates conductors up to 54 mm in diameter, making it ideal for industrial and power utility applications.

SPECIFICATIONS

General

Interfaces	BNC (integrated cable)
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Physical

Power Supply	Passive (no battery or external power required)
Operating Temperature	-10 °C to +55 °C °C
Dimensions (W×H×D)	97 mm × 231 mm × 36 mm mm
Weight	0.65 kg kg
Maximum Busbar Size	50 mm x 5 mm (2.0 in. x 0.2 in.)

Electrical & Measurement Specifications

Frequency Range	5 Hz to 50 kHz (-3 dB)
Maximum Peak AC Current	2000 A
Maximum Continuous AC Current	1000 A RMS
AC Current Range	100 mA to 2000 A peak
Output Sensitivity Settings	1 mV/A, 10 mV/A, 100 mV/A

Safety & Isolation Ratings

Maximum Working Voltage	600 V RMS
Measurement Category	CAT III 600 V

Physical & Mechanical Specifications

Maximum Conductor Diameter (Jaw Opening)	54 mm (2.13 in.)
Cable Length	1.5 m (5 ft.)
Output Connector Type	BNC

Power Source & Management

Power Requirements	Passive (none)
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Compatibility & Ordering

Recommended Instrument Input Impedance	1 MΩ
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Environmental

Storage Temperature	-40 °C to +70 °C
Operating Altitude	2000 m
Storage Altitude	12000 m

Performance

Accuracy (100 mV/A Range)	3% of reading + 50 mA (48 Hz to 65 Hz)
Accuracy (10 mV/A Range)	2% of reading + 0.5 A (48 Hz to 65 Hz)
Accuracy (1 mV/A Range)	2% of reading (100 A to 1000 A), 3% of reading (1000 A to 2000 A) (48 Hz to 65 Hz)
Phase Shift (100 mV/A Range)	≤ 2° at 50/60 Hz (for currents 0.1 A to 10 A)
Phase Shift (10 mV/A Range)	≤ 1° at 50/60 Hz (for currents 1 A to 100 A)
Phase Shift (1 mV/A Range)	≤ 1° at 50/60 Hz (for currents 10 A to 2000 A)
Conductor Position Influence	≤ 0.5% of reading (at 50/60 Hz)
Adjacent Conductor Influence	≤ 15 mA/A (at 50 Hz)

Compliance

Pollution Degree	2
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Compliance & Safety

Safety Standards	UL 61010-1, CAN/CSA-C22.2 No. 61010-1, EN 61010-2-032, IEC 61010-2-032
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TECHNOLOGY

Passive electromagnetic transformer

APPLICATIONS

AC current measurement for oscilloscopes and multimeters

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