

AC Current Probes

P6021A & P6022



The P6021 and P6022 Current Probes provide versatile AC current measurements. Both probes provide accurate current measurements over a wide range of frequencies. The P6021 and P6022 allow current measurements without breaking the circuit by clipping onto the current carrying conductor. Shielded probe heads are not grounded when the slides are in their open positions, eliminating accidental grounding of the circuit under test.

Key performance specifications

- P6021A
 - 120 Hz to 60 MHz
 - 10.6 A RMS, 250 A peak, 10 mA sensitivity
- P6022
 - 935 Hz to 120 MHz
 - 4 A RMS, 100 A peak, 1 mA sensitivity

Key features

- For 1 M Ω inputs
- Shielded probe head

- AC only
- Split core construction allows easy circuit connection
- 1.5 m (5 ft) cable

Applications

- Motor drives
- Power inverters/converters
- Power supplies
- Avionics

P6021A

For general purpose applications, the P6021A provides wide-band performance with excellent low-frequency characteristics. Bandwidth is 120 Hz to 60 MHz. The probe range is switchable between 2 mA/mV and 10 mA/mV.

P6022

With a head size of 0.47 in. x 0.25 in. (10 mm x 6 mm, about half the size of the P6021A) and a bandwidth of 935 Hz to 120 MHz, the P6022 is ideal for measuring currents in compact, high-performance circuits. Passive termination output is switchable between 1 mA/mV and 10 mA/mV.

Specifications

All specifications apply to all models unless noted otherwise.

Physical characteristics

Cable length 1.5 m (59 in)

P6021A probe head

Length 20 cm (7.77 in)
Width 16 mm (0.625 in)
Height 32 mm (1.25 in)
Maximum conductor diameter 5 mm (0.197 in)

P6022 probe head

Length 152 mm (6.0 in)
Width 6.4 mm (0.25 in)
Height 12 mm (0.47 in)
Maximum conductor diameter 2.8 mm (0.11 in)

EMC environment and safety

Compliance CAN/CSA-C22.2 No. 61010-1
CAN/CSA-C22.2 No. 61010-2-032
UL 61010-1
UL61010B-2-032
EN 61010-1
EN 61010-2-032

Ordering information

Models

P6021A	Current Probe
P6022	Current Probe with termination

Standard accessories

6 in. ground lead	196-3521-00
Instruction manual	071-3004-00 (P6021A), 070-0948-03 (P6022)
Termination	011-0106-00 (P6022 only)

Recommended accessories

Nylon carrying case	016-1952-xx
Current loop, 1 turn, 50 Ω with BNC connector, used for Performance Verification	067-2396-xx
Deskew/calibration fixture	067-1686-xx

Warranty

One year parts and labor.

Service options

Opt. C3	Calibration Service 3 Years
Opt. C5	Calibration Service 5 Years
Opt. D1	Calibration Data Report
Opt. D3	Calibration Data Report 3 Years (with Opt. C3)
Opt. D5	Calibration Data Report 5 Years (with Opt. C5)
Opt. R3	Repair Service 3 Years (including warranty)
Opt. R3DW	Repair Service Coverage 3 Years (includes product warranty period). 3-year period starts at time of instrument purchase
Opt. R5	Repair Service 5 Years (including warranty)
Opt. R5DW	Repair Service Coverage 5 Years (includes product warranty period). 5-year period starts at time of instrument purchase



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