

TEKTRONIX

TCPA300

The Tektronix TCPA300 is an Oscilloscope Current Probe Amplifier, designed to extend the current measurement capabilities of oscilloscopes by providing the necessary power, signal conditioning, and scaling for a range of Tektronix TCP series current probes. It features automatic probe recognition, autozero and demagnetize functions, and a clear alphanumeric display for status and control.

SPECIFICATIONS

General

Interfaces	TekProbe-BNC Output
Display	LED status indicators only (no alphanumeric display)

Physical

Power Supply	100–240 VAC, 50/60 Hz (internal power supply)
Operating Temperature	0 °C to +50 °C °C

Key Performance Specifications

Bandwidth	Up to 100 MHz (probe dependent)
Probe Compatibility	TCP303, TCP305A, TCP312A current probes
Oscilloscope Compatibility	Tektronix oscilloscopes with TekProbe Level II interface, or any oscilloscope with standard BNC input

Input Characteristics (Probe Interface)

Probe Input Connector Type	Tektronix proprietary multi-pin connector
Number of Probe Inputs	1
Automatic Probe Recognition	Yes

Output Characteristics (Oscilloscope Interface)

Output Connector Type	BNC (TekProbe-BNC)
Output Impedance	50 Ohm (nominal)
Output Scaling Factors	10X, 1X (Amplifier setting, probe specific mV/A or A/V determined by probe)
Recommended Termination Impedance	50 Ohm (on oscilloscope input)

Features & Functions

Demagnetize Function	Yes (front panel button)
Autozero Function	Yes (front panel button)
Manual Offset Adjustment	Yes
Scaling Control	Yes (front panel buttons for 1X, 10X)
Overload Indication	Yes (front panel LED)
Probe Status Monitoring	No
Remote Control Capability	No

General Specifications

User Interface Controls	Pushbuttons, Rotary Knob
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Physical Characteristics

Form Factor	Benchtop, Half-rack width
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Power Requirements

Input Voltage Range	100 to 240 VAC
Power Connector Type	IEC 60320 C14 AC mains inlet (internal power supply)

Ordering Information

Model Number	TCPA300
Warranty	1 year (standard)

TECHNOLOGY

Current Measurement

APPLICATIONS

Electronic design and debug, Power electronics testing, Motor drive analysis, EMI/EMC pre-compliance
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