TEKTRONIX

AM5030

The Tektronix AM5030 is a single-width current probe amplifier plug-in designed for use with Tektronix TM 5000 series power modules. It operates with the AM503 family of current probes (including A6312, A6302, and A6303) to enable simultaneous AC and DC current measurements, transforming sensed current into a proportional voltage output for oscilloscopes. Featuring automated one-button degaussing and autobalancing, it also supports remote programmable control via GPIB through its host mainframe.

SPECIFICATIONS

General

Interfaces	GPIB (programmable control via TM 5000 mainframe)
Display	LED digital readout

Physical

Power Supply	Powered via TM 5000 series mainframe plug-in slot
Operating Temperature	0 °C to +50 °C °C
Dimensions (W×H×D)	Single-width TM 5000 series plug-in mm

Input Characteristics

Compatible Probes	A6312, A6302, A6302XL, A6303, A6303XL, A6304XL, CT4
Input Connector Type	Tektronix 12-pin female current probe connector
Measurement Capability	Simultaneous AC and DC current

Gain & Performance

DC Gain Accuracy	≤1.5% (after DC accuracy measurement and calibration constant loading)
Bandwidth (-3 dB)	DC to 100 MHz (probe dependent)
Rise Time	≤3.5 ns to ≤175 ns (probe dependent)

Signal Conditioning & Filtering

Autobalancing	One-button autobalance
Degaussing	One-button probe degaussing

Output Characteristics

Output Connector Type	Rear-interface BNC via mainframe

Environmental

Storage Temperature	-55 °C to +75 °C
Operating Humidity	90% to 95% RH (at +30 °C), 75% to 80% RH (at +40 °C), 45% to 50% RH (at +50 °C)

Outputs

Output Impedance	50 Ω

Performance

Deflection Range (with A6302/A6312)	1 mA/div to 10 A/div
Deflection Range (with A6303)	10 mA/div to 100 A/div
Bandwidth (with A6312)	DC to 100 MHz
Bandwidth (with A6302)	DC to 50 MHz
Bandwidth (with A6303)	DC to 15 MHz
Output Coupling	AC, DC, DC Reject

TECHNOLOGY

Current Feedback Transimpedance Amplifier

APPLICATIONS

AC/DC Current Measurement

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.