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Product

CT6700 Current Probe

Headline

AC/DC current probe, 5 A / 50 MHz

Short Description

Hall sensor based zero-flux current probe suitable for capturing very small to high-speed currents, wide bandwidth from DC to 50 MHz, measurable continuous current from 1 mA to 5 A, high signal-to-noise ratio, standard BNC oscilloscope connectivity, built-in overload protection

Banner Specs

- DC to 50 MHz bandwidth
- 1 mA to 5 A measurable current
- Standard BNC output for all kind of oscilloscopes

Applications

- Power supplies (switching and linear)
- Semiconductor devices (SCRs, IGBTs, MOSFETs, CMOS, BJTs)
- Power inverters/converters
- Industrial/consumer electronics
- Mobile communications (phone, satellite, relay stations)
- Motor drives
- Mobility systems (EVs, electric trains, avionics)

Product Description

The HIOKI CT6700 current sensor is a high-performance and high-sensitivity current probe designed for use with advanced oscilloscopes, memory recorders like HIOKI's MR6000 or other data acquisition systems. Engineered to deliver exceptional accuracy, the CT6700 offers a wide DC to 50 MHz bandwidth with the ability to measure currents from 1 mA to 5 A.

The CT6700 boasts a high signal-to-noise ratio, ensuring clear and precise waveform observations without the need to rely on oscilloscope filters or averaging functions. The 1 V/A output rate enhances the voltage sensitivity of connected oscilloscopes, allowing precise detection also of weak signals.

Device protection also is a core aspect of the CT6700's design, featuring a system that monitors the temperature of the measurement circuit. In the event of overheating, the power supply to the circuit is automatically disconnected to prevent damage to the device. Additionally, a mechanism ensures that current spikes do not harm the sensor, and an LED indicator warns the user if the input current is too high.

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The CT6700 outputs the measurement signal through a standard BNC connector at a high impedance level, allowing direct connection to a wide range of oscilloscopes. For best results, especially for precise signal analysis, it is recommended to use an oscilloscope with a high-resolution ADC system or a recording system like HIOKI's MR6000.

Overall, the HIOKI CT6700 current probe is a comprehensive solution for a wide range of current measurement applications. It offers essential features that ensure precision, safety, and efficiency in a compact and robust design. Whether you are working with high-speed or very small currents, the CT6700 is the tool that guarantees accurate and reliable measurements.

What's in the box

- CT6700 with hard shell case
- Instruction manual

Related Products

- 3269 Power Supply
- 3272 Power Supply
- CT6711 Current Probe
- CT6710 Current Probe
- CT6701 Current Probe
- 3273-50 Current Probe
- 3274 Current Probe
- 3275 Current Probe
- 3276 Current Probe
- MR6000 Memory Recorder

Version	Date	Author	Approved	Document changes
1.0	10.10.2024	KS	KS	First Release