T3CP100-2 Current Probe Fact Sheet

DC/AC Current Probe

TELEDYNE TEST TOOLS
Everywhereyoulook™

Debug with Confidence

DC/AC 100 Amps, 2 MHz

Key Specifications

Current Measurements	Dual selectable ranges of 10 A or 100 A Peak
Frequency	DC to 2 MHz
Measurement Jaw Size	12 mm
Rise Time	≤ 175 ns
Connectivity	BNC cable to Oscilloscope 1 MΩ input
Power	Wall socket power adapter or 9 V Battery
Warranty	1 Year

Tools for Improved Debugging

• 12 mm probe jaw size.	✓ Large measurement jaw size gives wide application coverage.
• Simultaneous DC and AC measurement coverage.	✓ Measure from DC to 2 MHz all in one product.
• Connects to any oscilloscope with a 1 MΩ input impedance and BNC connector.	✓ Compatible with a wide range of oscilloscopes, not just Teledyne LeCroy or Teledyne Test Tools.
• Over-current protection with audio indicator.	✓ Buzzer informs the user of measurement current overload conditions helping to protect the current probe from potential damage.
• Built-in degaussing and zero setting.	✓ Functions to maintain user measurement accuracy.
• Dual range 10 A or 100 A capability.	✓ A high and low range setting giving the user broader measurement sensitivity coverage.
• Use multiple probes to cover multiphase applications.	✓ Wide single and multiphase application coverage.

For more information, please contact:

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The Teledyne Test Tools T3CP100-2 Current Probes come in a protective case and include a universal wall power adaptor.

Teledyne Test Tools new T3CP100-2 current probe is a DC to 2 Mhz bandwidth active AC/DC coupled probe, featuring 2 ranges of (100 A Peak, 70 A rms)/ (10 A Peak, 7 A rms), fast and accurate waveform capture, risetime of ≤ 175 ns and low test circuit loading. This probe can be used with any oscilloscope having a 1 MΩ BNC input.

BNC Output Connector

Connect to any instrument with 1 MΩ input impedance.

External DC Power Socket

High/Low Range Selector

Auto Zero Button with Indicator

Degauss and auto zero the probe by pressing the button. The auto zero indicator will alight during the process.

Control Unit

The control unit houses the probe control as well as having a 9 V battery compartment. A standard 9 V alkaline battery can be installed within the battery compartment if the probe is used without the external power supply.

Probe Head

The current probe measurement head uses a spring loaded lever to open and close the jaw. The jaw can clamp around cables up to 12 mm in diameter.

Key Features

- Accurate and easy current measurements.
- Wide 2 MHz bandwidth.
- Maximum AC Peak to Peak current of 200 A.
- Dual range (10 A Peak,7 A rms)/(100 A Peak,70 A rms).
- Maximum conductor voltage of ± 600 V.
- Measurement jaw size 12 mm.
- Auto Zero button and indicator.
- Use with any scope with a 1 MΩ input and BNC connector.
- Powered by 9 V battery or wall plug power supply (included).

Applications

- Power design and power component measurements.
- Consumer electronics and household appliances.
- Domestic and industrial photo-voltaic (PV)system design and maintenance.
- Automotive and vehicle electronics.
- Industrial and military electronics.
- Service technicians.
- Research and development.
- Universities, general electronics and education.