

LECROY (TELEDYNE LECROY)

CP150

The Teledyne LeCroy CP150 is a high-performance 150 A, 10 MHz AC/DC current probe designed for seamless integration with Teledyne LeCroy oscilloscopes. Powered directly through the ProBus interface, it features automatic scaling, auto-zeroing, and de-gaussing control from the oscilloscope user interface.

SPECIFICATIONS

General

Interfaces	Teledyne LeCroy ProBus
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Physical

Power Supply	Powered directly from the oscilloscope via ProBus interface
Operating Temperature	0 to 40 °C °C
Dimensions (W×H×D)	176 mm × 69 mm × 27 mm (probe head) mm
Weight	0.5 kg kg

Electrical & Performance Specifications

Maximum Continuous Input Current	150 A rms
Maximum Peak Current	300 A peak (non-continuous)
Bandwidth (-3 dB)	DC to 10 MHz
Rise Time	≤ 35 ns
Output Voltage (Sensitivity)	0.01 V/A (10 mV/A)
Amplitude Accuracy	±1.0% of reading ±10 mA (up to 150 A)
Equivalent Input Noise	≤ 25 mA rms
Insertion Impedance (at 50 Hz/60 Hz)	0.01 Ω
Insertion Impedance (at 1 MHz)	0.1 Ω

Connectivity & System Integration

Interface Type	Teledyne LeCroy ProBus
Auto-Zero / De-gaussing Control	Integrated via ProBus, operated from the oscilloscope UI

Physical & Mechanical Specifications

Maximum Conductor Diameter	20 mm
Output Cable Length	2 m
Jaw Mechanism Type	Clamp-on

Environmental Specifications

Storage Temperature	-10 °C to 50 °C
Operating Relative Humidity	80% max (non-condensing)
Maximum Operating Altitude	2000 m

Safety & Compliance

Measurement Category (CAT Rating)	CAT III 300 V, CAT II 600 V
Safety Standards Compliance	EN 61010-1, EN 61010-2-032
EMC Standards Compliance	EN 61326
Pollution Degree	2
Maximum Rated Voltage to Earth	300 V CAT III, 600 V CAT II (insulated conductor)

System Requirements

Required Oscilloscope Input Impedance	1 MΩ
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Electrical Characteristics

Coupling	AC/DC
Sensor Type	Hall effect and current transformer
Max External Magnetic Field Influence	≤ 150 mA (in a DC or 60 Hz magnetic field of 400 A/m)

Accuracy

Temperature Coefficient	±2% f.s. or less (0 °C to 40 °C)
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Power Requirements

Maximum Rated Power	5.5 VA (within maximum rated current)
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TECHNOLOGY

Fluxgate-Hall Effect Hybrid

APPLICATIONS

AC/DC Current Measurement

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