







# SPECIFICATIONS & ORDERING INFORMATION

Specifications	CP030 (CP030-3M)	CP030A	CP031	CP031A	CP150 (CP150-6M)	CP500
Electrical Characteristics*						
Max. Continuous Input Current	30 A <sub>rms</sub>			150 A <sub>rms</sub>		500 A <sub>rms</sub>
Bandwidth	50 MHz (10 MHz)	100 MHz		10 MHz (5 MHz)		2 MHz
Rise Time (typical)	≤ 7 ns (≤ 35 ns)	≤ 3.5 ns		≤ 35 ns (≤ 70 ns)		≤ 175 ns
Max. Peak Current	50 A <sub>peak</sub> (non-continuous)			300 A <sub>peak</sub> (non-continuous); 500 A <sub>peak</sub> ≤ 30 μs		700 A <sub>peak</sub> (non-continuous)
Output Voltage	0.1 V/A	0.1 V/A & 1 V/A	0.1 V/A	0.1 V/A & 1 V/A	0.01 V/A	
Max Continuous Input Current at 1 V/A (100mA/div or less)	–	5 A	–	5 A	–	
Offset Range at 1V/A (100mA/div or less)	–	±5 A	–	±5 A	–	
Minimum Sensitivity	10 mA/div	1 mA/div	10 mA/div	1 mA/div	100 mA/div	
Low-Frequency Accuracy	1%					
AC Noise at 20 MHz BWL	≤ 2.5 mA	≤ 150 μA	≤ 2.5 mA	≤ 150 μA	≤ 6.0 mA	≤ 8.0 mA
Coupling	AC, DC, GND					

## General Characteristics

Cable Length	1.5 m (3 m)	1.5 m		2 m (6 m)		6 m
Weight	240 g (290 g)	260 g	240 g	260 g	500 g (600 g)	630 g
Max. Conductor Size (Diameter)	5 mm			20 mm		
Interface	ProBus, 1 MΩ only					
Usage Environment	Indoor					
Operating Temperature	0° C to 40° C					
Max. Relative Humidity	80%					
Max. Altitude	2000 m					
Maximum Insulated Wire Voltage	300 V CAT I			600 V CAT II, 300 V CAT III		

\* Electrical Characteristics Guaranteed at 23 °C ±3 °C

CP03x, CP150, and CP500 probes (and long cable versions of these) are compatible with any Teledyne LeCroy oscilloscope with a ProBus interface running firmware version 4.3.1.1 or great.

CP03xA probes are compatible with most Teledyne LeCroy oscilloscopes with a ProBus interface running X-Stream™ firmware version 7.8.x.x or later, including WaveSurfer Xs-A, MXs/MXs-A/MXs-B, and 10; HDO4000, 6000, 8000, and 9000; MDA800, HRO/WaveRunner 6 Zi, WaveRunner 8000, Xi/Xi-A/MXi/MXi-A, WavePro/SDA/DDA 7 Zi/Zi-A; WaveMaster/SDA/DDA 8 Zi/Zi-A/Zi-B, and LabMaster 9 Zi-A series. WavePro 7000/7000A series are compatible if they are running Windows XP Professional and X-Stream™ firmware version 7.8.x.x or later. WaveSurfer Xs series must be upgraded to Windows XP Professional. Contact your local service center regarding upgrades.

## Ordering Information

### Product Description

Product Description	Product Code
30 A; 50 MHz Current Probe – AC/DC; 30 A <sub>rms</sub> ; 50 A Peak Pulse, 1.5 meter cable	CP030
30A; 10 MHz Current Probe - AC/DC, 30 Arms; 50 A Peak Pulse, 3 meter cable (not EMC compliant)	CP030-3M
30 A; 50 MHz High Sensitivity Current Probe – AC/DC; 30 A <sub>rms</sub> ; 50 A Peak Pulse, 1.5 meter cable	CP030A
30 A; 100 MHz Current Probe – AC/DC; 30 A <sub>rms</sub> ; 50 A Peak Pulse, 1.5 meter cable	CP031
30 A; 100 MHz High Sensitivity Current Probe – AC/DC; 30 A <sub>rms</sub> ; 50 A Peak Pulse, 1.5 meter cable	CP031A
150 A; 10 MHz Current Probe – AC/DC; 150 A <sub>rms</sub> ; 500 A Peak Pulse, 2 meter cable	CP150
150 A; 5 MHz Current Probe – AC/DC; 150 Arms; 500 A Peak Pulse, 6 meter cable (not EMC compliant)	CP150-6M
500 A; 2 MHz Current Probe – AC/DC; 500 A <sub>rms</sub> ; 700 A Peak Pulse, 6 meter cable	CP500
Deskew Calibration Source for CP031,CP031A, CP030, CP030A and AP015	DCS015

### Customer Service

Teledyne LeCroy oscilloscopes and probes are designed, built, and tested to ensure high reliability. In the unlikely event you experience difficulties, our digital oscilloscopes are fully warranted for three years and our probes are warranted for one year. This warranty includes:

- No charge for return shipping
- Long-term 7-year support
- Upgrade to latest software at no charge



1-800-5-LeCroy  
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Local sales offices are located throughout the world.  
Visit our website to find the most convenient location.

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