

TEKTRONIX

TCP404XL

The Tektronix TCP404XL is a high-current AC/DC current probe designed for use with the TCPA400 current probe amplifier. Featuring an extended 8-meter cable length, it delivers a bandwidth of DC to 2 MHz and enables non-intrusive current measurements up to 500 A continuous DC/RMS and 750 A peak.

SPECIFICATIONS

General

Interfaces	TCPA400 dedicated probe interface
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Physical

Power Supply	Powered directly by TCPA400 probe amplifier
Operating Temperature	0 °C to +50 °C °C
Weight	0.88 kg (1.9 lbs) kg

Electrical & Performance Specifications

Bandwidth (-3 dB)	DC to 2 MHz
Rise Time	≤ 175 ns
Maximum Continuous DC / RMS Current	500 A
Maximum Peak Pulse Current	750 A
DC Accuracy (with TCPA400)	±3% (warranted), ±1% (typical)

System Compatibility & Control

Compatible Amplifier Mainframe	Tektronix TCPA400
Automatic Scale Factor Readout	Supported when connected to TCPA400 and TekConnect/TEKPROBE oscilloscopes
Auto-Zero Capability	Supported via TCPA400 amplifier control panel
Degaussing Functionality	Supported via TCPA400 amplifier control panel

Physical & Mechanical Characteristics

Maximum Conductor Diameter	21 mm × 25 mm (0.83 in × 1.0 in)
Probe Cable Length	8 m (26.2 ft)

Environmental Specifications

Operating Temperature Range	0 °C to +50 °C (32 °F to 122 °F)
Storage Temperature Range	-40 °C to +75 °C (-40 °F to 167 °F)
Operating Altitude	Up to 2,000 m (6,562 ft)
Storage Altitude	Up to 12,192 m (40,000 ft)

Safety & Regulatory Compliance

Measurement Category Rating	600 V RMS CAT I & II; 300 V RMS CAT III
Safety Compliance Standards	UL61010-1, CSA C22.2 No. 61010-1, EN61010-1, IEC61010-1

Safety & Compliance

Maximum Bare Wire Voltage	600 V RMS CAT I & II; 300 V RMS CAT III
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Environmental

Operating Humidity	5% to 95% RH (+30 °C), 5% to 85% RH (+30 °C to +50 °C)
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Power

Power Source	Powered directly from TCPA400 amplifier
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TECHNOLOGY

Hall Effect and Transformer (AC/DC Current Sensing)

APPLICATIONS

High-current power electronics testing, motor drives, power supplies, automotive and industrial measurement

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