

P5100**P6015A****P400****P850****P6015A**

Measurements for auto ignition, transformers, circuit breakers, surge protectors, lightning strike evaluation, avionics: radar, magnetrons, traveling wave tubes, electric ground transportation vehicles, semiconductor production equipment.

P400/P850

Safe floating power measurements for industrial service with 22X Handheld Oscilloscopes.

P5100

Measurements up to 2.5 kV for motor drives, power supplies, and other switch-mode control devices.

Product(s) available through an Authorized Tektronix Distributor (see pages 590-595).

Product(s) available through your local Tektronix representative (listed in the back of this catalog) or call 1-800-426-2200.



Tektronix Measurement products are manufactured in ISO registered facilities.

New P5100

- DC to 250 MHz
- 2500 VDC + Peak AC
- 100X with Readout
- UL Listed 1244
- IEC 1010 Certified
- 7-30 pF Compensation Range

P6015A

- High Voltage – 20 kV DC/40 kV Peak (100 ms Pulse Width)
- High Bandwidth – 75 MHz
- Silicone Dielectric
- Optional 1,000X Coding
- Wide Compensation Range (7-49 pF)
- Heavy Duty Versatile Ground Lead and Clip

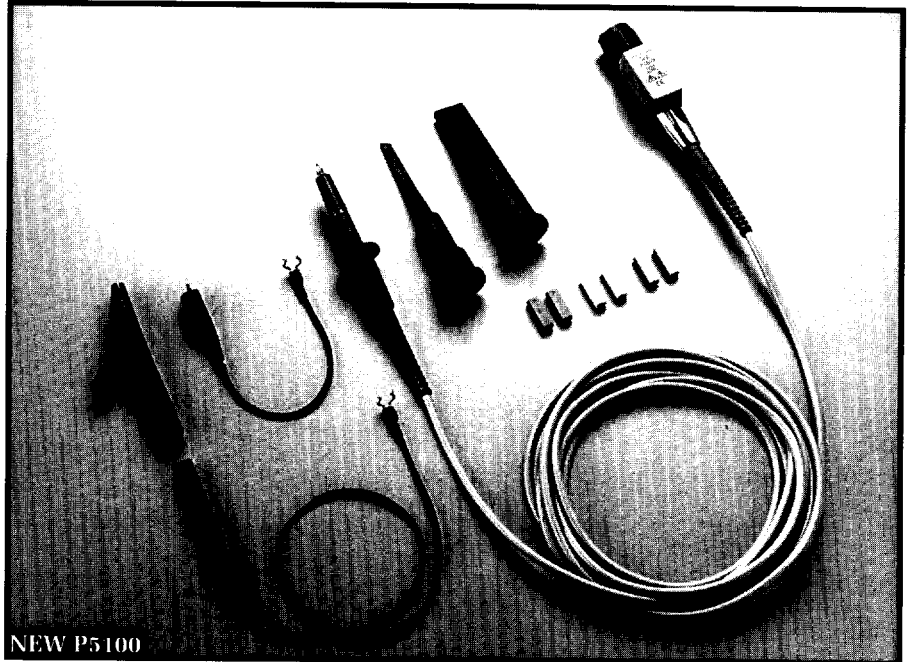
P400

- 1X
- DC to 20 MHz
- UL Listed 1244

P850

- 10X
- DC to 60 MHz
- UL Listed 1244

High Voltage Probes



P5100 High Voltage Probe

The P5100 is a low-input capacitance High Voltage (2.5 kV) Probe designed for higher frequency applications. The probe can be compensated to match plug-ins and oscilloscopes with nominal input capacitances of 7-30 pF. A variety of screw-on accessories provide easy connection to the device under test.

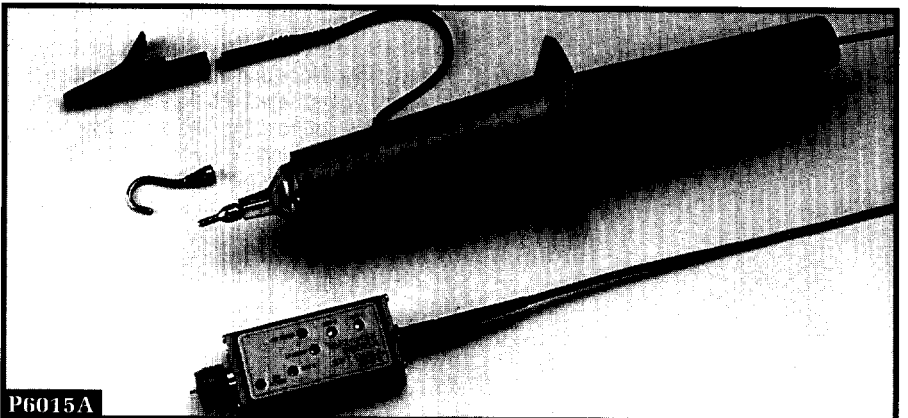
For additional information on P5100 request Data Sheet 56W-10262-0.

P6015A High Voltage Probe

For heavy duty high-performance measurements of voltages over 2.5 kV, the P6015A is the industry standard. You can measure DC voltages up to 20 kV and pulses up to 40 kV. The 75 MHz bandwidth enables you to capture fast, high-voltage signals.

The P6015A uses an environmentally safe silicone compound for a dielectric and never needs refilling. Other features include: a 7-49 pF compensation range, small compensation boxes which fit on adjacent amplifier inputs, and a readout option for use with Tektronix digital scopes. With the readout option, displayed voltage amplitude values will be the actual signal value rather than understated by a factor of 1,000. Using the readout version with other than Tektronix digital scopes may result in an erroneous readout display.

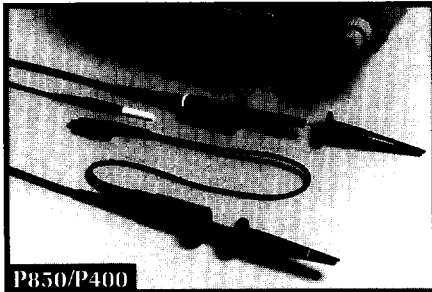
For additional information on the P6015A, request P6015A Data Sheet 51W-8217-1.



High Voltage Probes

P5100
P6015A
P400
P850

HIGH VOLTAGE PROBES



P850/P400
P850 and P400 with 222PS.

P400 and P850 Voltage Probes

The P400 and P850 are used with the 222A, 222PS, and 224 handheld oscilloscopes. These oscilloscopes feature two completely isolated floating input channels. The P400 and P850 are UL listed and were specifically designed for making safe power measurements. The P400 is 1X attenuation and the P850 is 10X attenuation. These probes directly plug into the 22X oscilloscopes. Since the performance of the probes depends on which of the 22X oscilloscopes they are being used with, refer to the characteristics table for specific scope/probe specifications.

CHARACTERISTICS

P6015A/P5100/P6007/P6009

Probe	Nominal Length	Attenuation	Bandwidth	Rise Time	Loading	Max Input V	In pF DC or RMS	Readout
P6015A	10 ft.	1000X	75 MHz	4.0 ns	100 M Ω /3 pF	20 kV	7 to 49	No
P6015A Opt. 1R	10 ft.	1000X	75 MHz	4.0 ns	100 M Ω /3 pF	20 kV	7 to 49	Yes
P6015A Opt. 25	25 ft.	1000X	25 MHz	14 ns	100 M Ω /4 pF	20 kV	7-49	No
P6015A Opt. 2R	25 ft.	1000X	25 MHz	14 ns	100 M Ω /4 pF	20 kV	7-49	Yes
P5100	10 ft.	100x	250 MHz	1.75 ns	10 M Ω /2.75 pF	2.5 kV	7 to 30	Yes
P6007 Opt. 01	3.5 ft.	100X	25 MHz	14 ns	10 M Ω /2 pF	1.5 kV	8 to 55	No
P6007	6 ft.	100X	25 MHz	14 ns	10 M Ω /2.2 pF	1.5 kV	8 to 55	No
P6007 Opt. 03	9 ft.	100X	25 MHz	14 ns	10 M Ω /2.4 pF	1.5 kV	8 to 55	No
P6007 Opt. 04	12 ft.	100X	25 MHz	14 ns	10 M Ω /2.6 pF	1.5 kV	8 to 55	No
P6009	9 ft.	100X	120 MHz	2.9 ns	10 M Ω /2.5 pF	1.5 kV	8 to 47	Yes

P850/P400

Probe	Nominal Length	Attenuation	Loading	Bandwidth			Max Input V		
				222A	222PS	224	222A	222PS	224
P400	3.5 ft.	1X	1 M Ω /30 pF	10 MHz	10 MHz	20 MHz	400 V	850 V	850 V
P850*1	3.5 ft.	10X	10 M Ω /4.5 pF	10 MHz	10 MHz	60 MHz	400 V	850 V	850 V

*1 The P850 is rated for 6 kV peak surge ($\leq 250 \mu\text{s}$) when used with the 222PS and 224, but not for the 222A.

ORDERING INFORMATION

P5100

100X, 10 ft. High Voltage Probe **\$199**
Includes: Two each three colors Cable Markers, One each Crocodile Clip, One each Adjustment Tool, One each Hooktip (Small), One each Hooktip (large), One each 18 inch Ground Lead, One each six inch Ground Lead, Instruction Manual (070-8151-00).

P6015A

1,000X, 10 ft. High Voltage Probe **\$985**
Includes: Hook Probe Tip (206-0463-00); Banana Plug Tip (134-0016-00); Crocodile Clip - plugs onto Ground Lead (344-0461-00); Ground Lead (196-3363-00); Carrying Case (016-1147-00); Instruction Manual (070-8223-02).

Opt. 1R - 10 ft. with Readout **+\$55**

Opt. 25 - 25 ft. without Readout **+\$125**

Opt. 2R - 25 ft. with Readout **+\$170**

P850

10X, 3.5 ft. Voltage Probe **\$115**
Includes: Ground Lead (196-3337-00); Accessory Kit (020-1908-00); Data Sheet (063-0634-00).

P400

1X, 3.5 ft. Voltage Probe **\$105**
Includes: Ground Lead (196-3337-00); Accessory Kit (020-1908-00); Data Sheet (063-0634-00).

P6007

100X, 5 ft. High Voltage Probe **\$195**
Includes: Retractable Hook Tip (013-0071-00); Banana Tip (134-0013-00); 5 in. Ground Lead (175-0124-01); 12 in. Ground Lead (175-0125-01); .005 in. Diameter Straight Tip (206-0015-00); .080 in. Diameter Spring Tip (206-0060-00); Hook Tip (206-0105-00); 2 Miniature Alligator Clips (344-0046-00); Probe Holder (352-0090-00); Instruction Manual (070-0388-01).

Opt. 01 - 3.5 ft. Cable **+\$30**

Opt. 03 - 9 ft. Cable **+\$35**

Opt. 04 - 12 ft. Cable **+\$55**

P6009

100X, 9 ft. High Voltage Probe with Readout **\$299**
Includes: Same as the P5100 plus Bayonet Ground Assembly (013-0052-00); 3 in. Ground Lead (175-0263-01); Instruction Manual (070-0401-01).

RECOMMENDED ACCESSORIES

See page 476-494 for complete selection information.

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