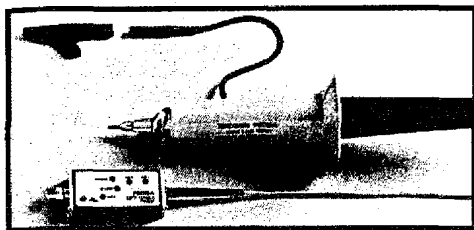


# High Voltage Probes

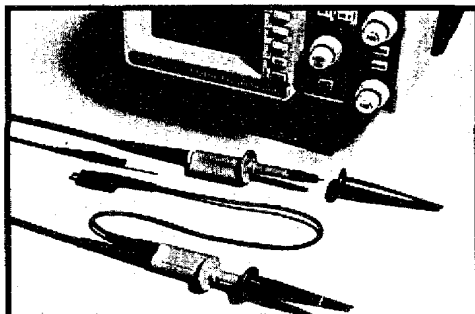
**P6015A**  
**P400**  
**P850**



## P6015A High Voltage Probe

For heavy duty high performance measurements of voltages over 1.5 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. Although the CMRR is not as good as using the P6135A, two P6015As with a Tektronix differential amplifier provide a reasonable solution for higher voltage differential measurements.

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.



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 and are only usable with them. Since the performance of the probes depend on which of the 22X oscilloscopes they are being used with, refer to the characteristics table for specific scope/probe specifications.

## P6015A

- High Voltage – 20 kV DC/40 kV Peak (100 ms pulse width)
- High Bandwidth – 75 MHz
- Silicone Dielectric (No Freon)
- Optional 1,000X Coding
- Wide Compensation Range (7-49 pF)
- Heavy Duty Versatile Ground Lead and Clip

## P850

- 10X
- DC to 60 MHz
- UL Listed

## P400

- 1X
- DC to 20 MHz
- UL listed

## P6015A

*High voltage 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 power measurements for industrial service with 22X Handheld Oscilloscopes.*

## Characteristics

### P6015A

	Nominal Length	Attenuation	Bandwidth	Rise Time	Loading	Max DC Input V	Scope C In pF	Readout
P6015A	10 ft.	1000X	75 MHz	4.0 ns	100 MΩ/3 pF	20 kV	7 to 49	No
P6015A Opt. 1R	10 ft.	1000X	75 MHz	4.0 ns	100 MΩ/3 pF	20 kV	7 to 49	Yes
P6015A Opt. 25	25 ft.	1000X	25 MHz	14 ns	100 MΩ/4 pF	20 kV	7 to 49	No
P6015 Opt. 2R	25 ft.	1000X	25 MHz	14 ns	100 MΩ/4 pF	20 kV	7 to 49	Yes

### P850/P400

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

\* The P850 is rated for 6 kV peak surge (≤250 μs) when used with the 222PS and 224, but not for the 222A.

## ORDERING INFORMATION

<b>P6015A</b> 100X, 10 ft. High Voltage Probe ..... <b>\$895</b> <b>Includes:</b> Alligator Clip – plugs onto Probe Tip (344-0005-00); Crocodile Clip – plugs onto Ground Lead (344-0461-00); Ground Lead (196-3363-00); Carrying Case (016-1147-00); Instruction Manual (070-8223-00).	<b>P850</b> 10X, 3.5 ft. Voltage Probe ..... <b>\$100</b> <b>Includes:</b> Ground Lead (196-3337-00); Accessory Kit (020-1908-00); Datasheet (063-0634-00).
<b>Opt. 1R</b> – 10 ft. with readout ..... <b>+\$55</b>	<b>P400</b> 1X, 3.5 ft. Voltage Probe ..... <b>\$100</b> <b>Includes:</b> Ground Lead (196-3337-00); Accessory Kit (020-1908-00); Datasheet (063-0634-00).
<b>Opt. 25</b> – 25 ft. without readout ..... <b>+\$125</b>	
<b>Opt. 2R</b> – 25 ft. with readout ..... <b>+\$170</b>	