

P5205 High Voltage Differential Probe

Probe Connects Directly to TDS Scope through TekProbe™ Interface

1300 V Maximum Differential Input Voltage

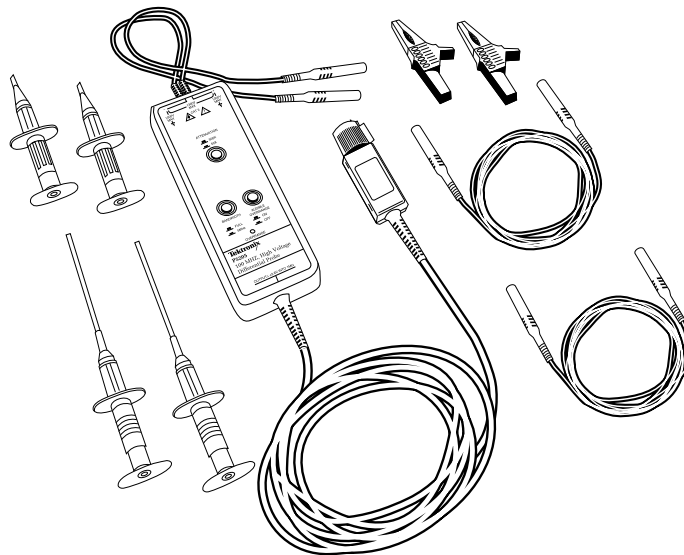
±1000 V Maximum Floating Voltage on All Ranges

100 MHz Bandwidth

Easy Connection to ICs, Discrete Components, and Bus Bars

Make Safe Floating Measurements with Grounded Scope

UL 3111 and IEC 1010 Safety Certified



The P5205 probe enables users to make floating measurements with the scope grounded, resulting in safer, more accurate measurements and higher productivity.

The P5205 probe is ideal for power supply design, motor drive design, electric vehicle research, education, and field service.

The probe is specifically designed for use with Tektronix TDS oscilloscopes. It can also be used with other oscilloscopes by utilizing the 1103 TekProbe power supply.

STANDARD SPECIFICATIONS

Max. Differential Input Voltage
1300 V (DC + peak AC)

Max. Input Voltage to Ground
±1000 V (each input)

Bandwidth (50X setting)
100 MHz

DC Gain Accuracy
±3%

Power Supply
TekProbe interface;
For non-TekProbe BNC connector scopes use 1103 power supply

Switchable Attenuation
50X/500X

Electrostatic Immunity
> 8 kV

TYPICAL SPECIFICATIONS

Input C
7 pF (each input)

Input R
4 M Ω (each input)

CMRR
> 80 dB at 60 Hz
> 50 dB at 100 kHz

Propagation Delay
17 ns

Rise Time
3.5 ns

Noise
< 50 mV rms (50X)
< 300 mV rms (500X)

Overdrive Recovery
< 10% error after 50 ns

PHYSICAL CHARACTERISTICS

Weight
(including accessories)
0.38 kg (0.84 lb)

Input Lead Length
30 cm (12 in.)

Output Cable Length
2 m (6.6 ft)



P5205

High Voltage Differential Probe

To find the authorized Tektronix distributor nearest you, call:
(USA only)
(800) 479-4490

For further information, contact Tektronix:

ASEAN Countries (65) 356-3900	Italy 39 (2) 25-086-1
Australia & New Zealand 61 (2) 888-7066	Japan (Sony/Tektronix Corporation) 81 (3) 3448-3111
Austria 43 (1) 6866020	Korea 82 (2) 528-5299
Belgium 32 (2) 725-96-10	The Netherlands 31 (2503) 95555
Canada 1 (800) 661-5625	Norway 47 (2207) 0700
Central America, Mexico, & Caribbean 52 (5) 666-6333	People's Republic of China 86 (10) 834-7657
Denmark 45 (44) 53 54 55	South America 55 (11) 543-1911
Finland 358 (0) 4783 400	Spain & Portugal 34 (1) 372 6000
France & North Africa 33 (1) 69 86 81 81	Sweden 46 (8) 629 6500
Germany, Eastern Europe, & Middle East 49 (221) 94 77 0	Switzerland 41 42 21 91 92
Hong Kong (852) 2585-6688	Taiwan 886 (2) 765-6362
India 91 (80) 226-5470	UK 44 (1628) 403300
	USA 1-800-426-2200

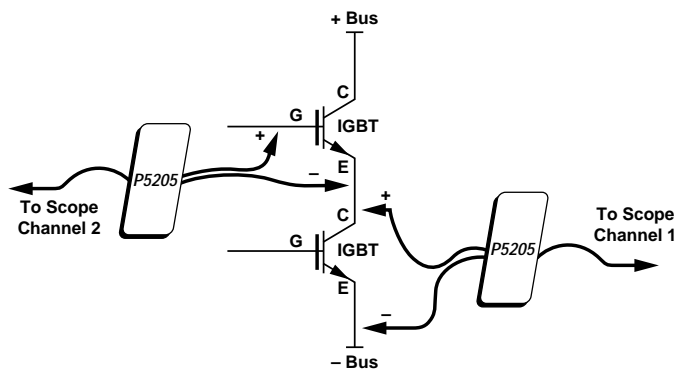
From other areas, contact:
Tektronix, Inc. Export Sales
P.O. Box 500, M/S 50-255
Beaverton, Oregon 97077-0001 USA
(503) 627-1916

Visit our Web site:
World Wide Web: <http://www.tek.com>

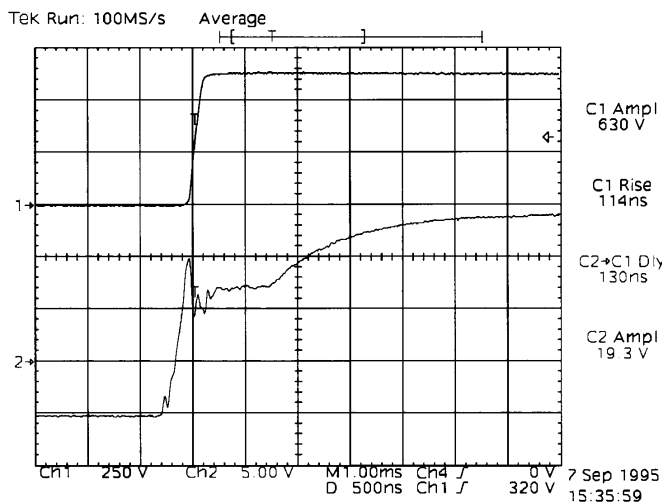


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TYPICAL MOTOR DRIVE APPLICATION



Basic output circuit.



IGBTs turn-on waveforms.

ORDERING INFORMATION

P5205 HIGH VOLTAGE DIFFERENTIAL PROBE

Includes:
Accessory pack (020-2106-00) consisting of: two 7.5 inch plunger clamps, two crocodile clips

Accessory pack (020-2140-00) consisting of: two 18 inch extender leads, two lead adapters (f-f), two plunger hook clips

Soft case (mounting) (016-1461-00)

Instruction Manual (070-9472-00)

RELATED PRODUCTS

- 1103**
TekProbe Power Supply
- ADA400A**
Differential Preamplifier

P5200
25 MHz High Voltage Differential Probe for use with non-TekProbe interface scopes

RECOMMENDED OSCILLOSCOPES

- TDS 400 Series
 - TDS 500 Series*
 - TDS 600 Series
 - TDS 700 Series
- * except for early versions