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ADA400A Differential Preamplifier

Provides Low Level Signal Acquisition Capability to DSOs

10 µV/div Sensitivity

Low Pass Filters for 100 Hz, 3 kHz, 100 kHz, and Full (1 MHz)

CMRR: > 100 dB DC to 10 kHz

Selectable Gain: 100, 10, 1, or 0.1

Accurately Measures Signals As Small As 5 μV

Ideal for Medical Research, Mechanical Testing, and Medical Equipment Design

No Additional Power Supplies or Cables Required When Used with Oscilloscopes That Have a TekProbe[™] BNC Connector Interface

w low level differential measurements can be made on any Tek scope. The ADA400A preamplifier is perfect for low frequency differential measurements or low amplitude, single ended measurements with lots of noise.

The ADA400A preamplifier is designed for biophysical research and mechanical transducer, medical diagnostic, and imaging equipment design, as well as audio equipment design applications.

STANDARD SPECIFICATIONS

Gain Settings 0.1, 1, 10, 100

Differential Signal Range

(with DC Offset off)		
0.1	± 80 V	
1	± 10 V	
10	± 1 V	
100	± 100 mV	

 Common Mode Signal Range

 0.1, 1
 ± 40 V

 10, 100
 ± 10 V

Power Supply

TekProbe Power (for non-TekProbe BNC connector scopes use 1103 Power Supply)

Electrostatic Immunity (per IEC 801-2)

> 8 kV

DC Gain Accuracy ± 2%

TYPICAL CHARACTERISTICS

CMRR

(at gain of 100)

> 100 dB (100,000:1) at 10 kHz > 90 dB (30,000:1) at 100 kHz

Input R

1 M Ω (each input) ($\infty \Omega$ jumper selectable)

Input C 55 pF ± 20% (each input)

 Offset Range

 0.1, 1
 ± 40 V

 10, 100
 ± 1 V

Bandwidth

DC to > 1 MHz

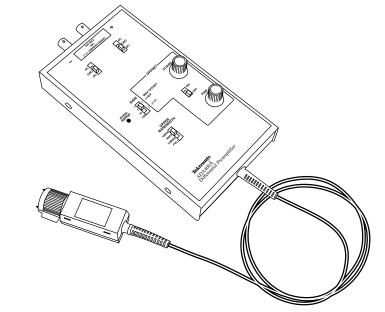
Selectable Filters 100 Hz, 3 kHz, 100 kHz

Output Load Requirements $1 \text{ M}\Omega$

PHYSICAL CHARACTERISTICS

Output Cable Length 2 m (6.6 ft)

Weight	kg	lb
Net	1.49	3.3
Dimensions	cm	in
Height	3.6	1.4
Width	11.2	4.4
Length	20.3	8.0



Tektronix

ADA400A Differential Preamplifier

For further information, contact the nearest Tektronix subsidiary, or:

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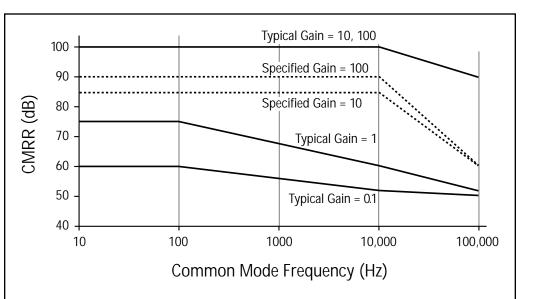
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ORDERING INFORMATION

ADA400A DIFFERENTIAL PREAMPLIFIER

Includes: Two spare fuses (1/16 A, 250 V), Instruction Manual (070-9164-00)

RECOMMENDED ACCESSORIES

P6101B 1X, 15 MHz Passive Voltage Probe

1103 TekProbe Power Supply (for use with non-TekProbe **BNC Scopes**)

RECOMMENDED **OSCILLOSCOPES**

TDS 400 Series TDS 500 Series TDS 600 Series **TDS 700 Series**

RELATED PRODUCTS

P6046 100 MHz, Active **Differential Probe**

P5200 25 MHz, 1300 V **Differential Probe**

P6135A 10X, 500 V, 150 MHz **Differential Probe Pair**

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TEKFAX