

ADA400A Differential Preamplifier

Provides Low Level Signal Acquisition Capability to DSOs

10 $\mu\text{V}/\text{div}$ Sensitivity

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

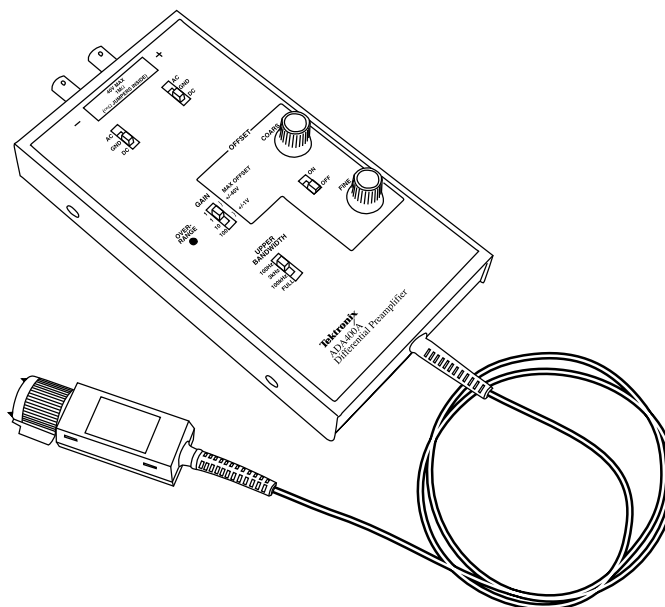
CMRR: > 100 dB DC to 10 kHz

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



Now 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	$\pm 80\text{ V}$
1	$\pm 10\text{ V}$
10	$\pm 1\text{ V}$
100	$\pm 100\text{ mV}$

Common Mode Signal Range

0.1, 1	$\pm 40\text{ V}$
10, 100	$\pm 10\text{ V}$

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
 $\pm 2\%$

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 $\pm 20\%$ (each input)

Offset Range

0.1, 1	$\pm 40\text{ V}$
10, 100	$\pm 1\text{ V}$

Bandwidth
DC to > 1 MHz

Selectable Filters
100 Hz, 3 kHz, 100 kHz

Output Load Requirements
1 M Ω

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

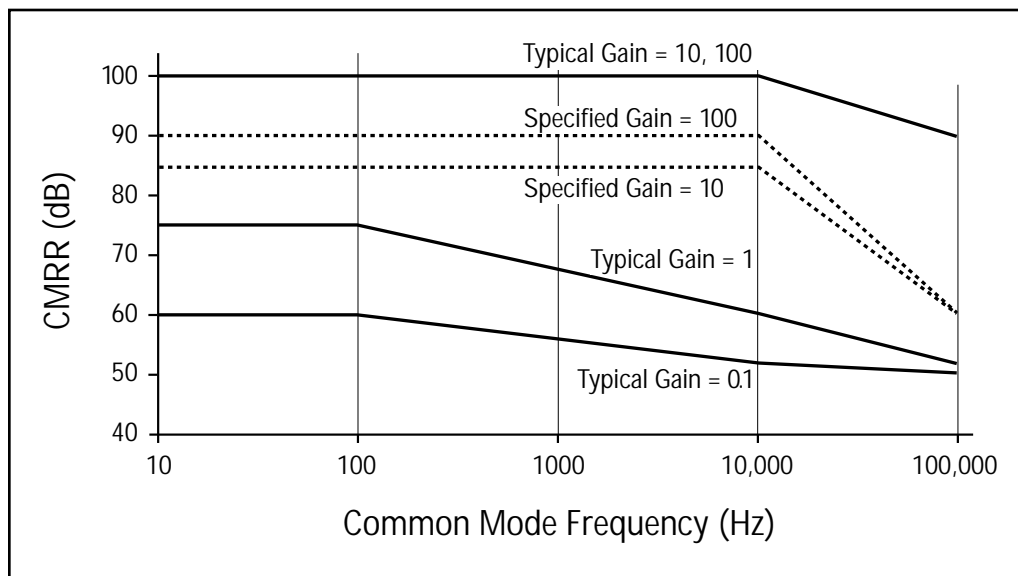


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For further information, contact the nearest Tektronix subsidiary, or:

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

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
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India 91 (80) 226-5470	UK 44 (1628) 403300
	USA 1-800-426-2200



ORDERING INFORMATION

ADA400A DIFFERENTIAL PREAMPLIFIER

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

RECOMMENDED OSCILLOSCOPES

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

RECOMMENDED ACCESSORIES

P6101B 1X, 15 MHz Passive Voltage Probe
1103 TekProbe Power Supply (for use with non-TekProbe BNC Scopes)

RELATED PRODUCTS

P6046 100 MHz, Active Differential Probe
P5200 25 MHz, 1300 V Differential Probe
P6135A 10X, 500 V, 150 MHz Differential Probe Pair

From other areas, contact:

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



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