




## ADA400A Differential Preamplifier

Provides Low Level Signal Acquisition Capability to DSOs

10  $\mu$ V/div Sensitivity

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

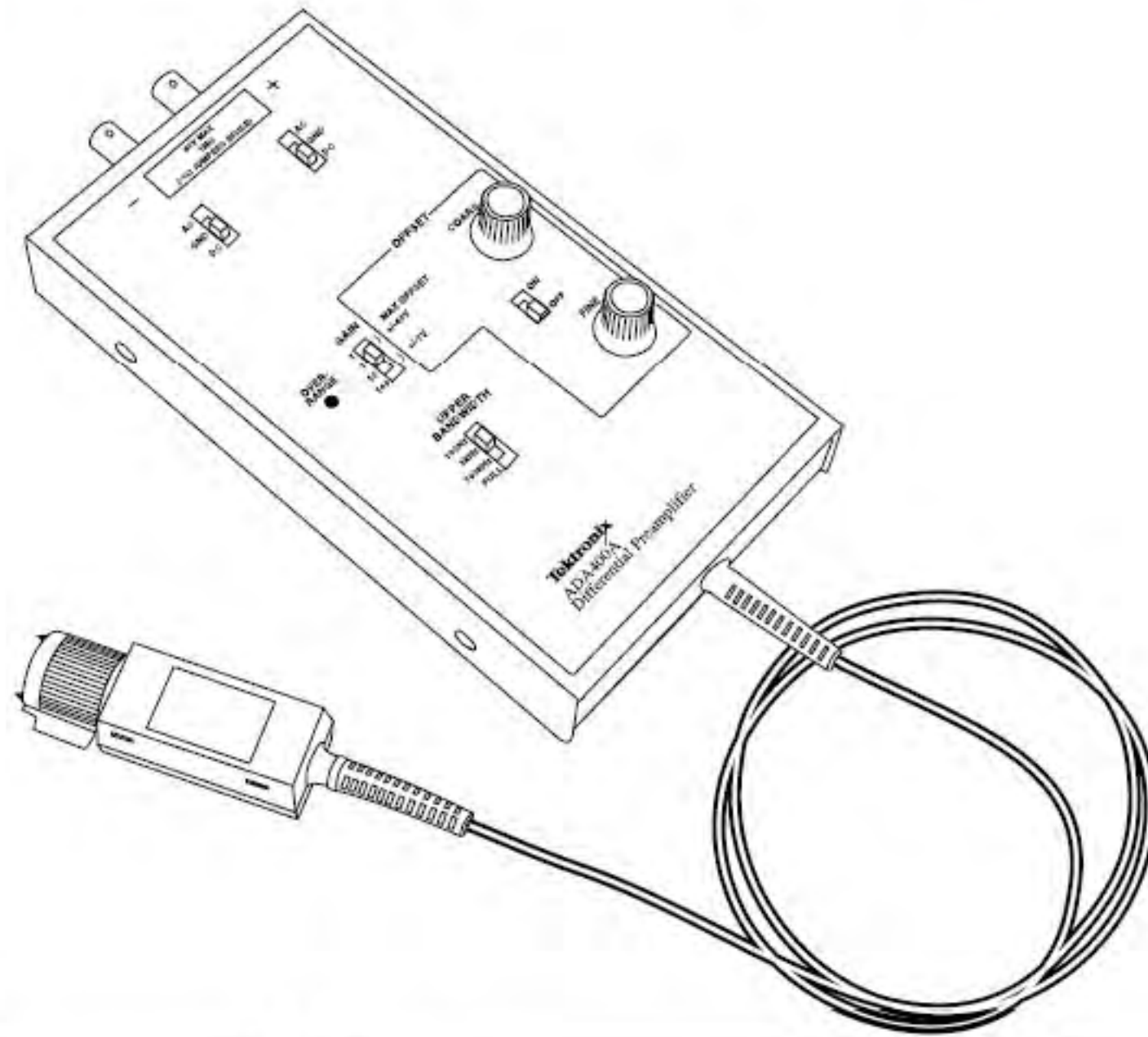
CMRR: > 100 dB DC to 10 kHz

Selectable Gain:  
100, 10, 1, or 0.1

Accurately Measures Signals As Small As 5  $\mu$ V

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



**N**ow low level differential measurements can be made on any Tek scope. The ADA400A pre-amplifier 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	$\pm 80$ V
1	$\pm 10$ V
10	$\pm 1$ V
100	$\pm 100$ mV

**Common Mode Signal Range**

0.1, 1	$\pm 40$ V
10, 100	$\pm 10$ 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**  
 $\pm 2\%$

### 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 $\Omega$  (each input)  
( $\infty$   $\Omega$  jumper selectable)

**Input C**  
55 pF  $\pm 20\%$  (each input)

**Offset Range**

0.1, 1	$\pm 40$ V
10, 100	$\pm 1$ V

**Bandwidth**  
DC to > 1 MHz

**Selectable Filters**  
100 Hz, 3 kHz, 100 kHz

**Output Load Requirements**  
1 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



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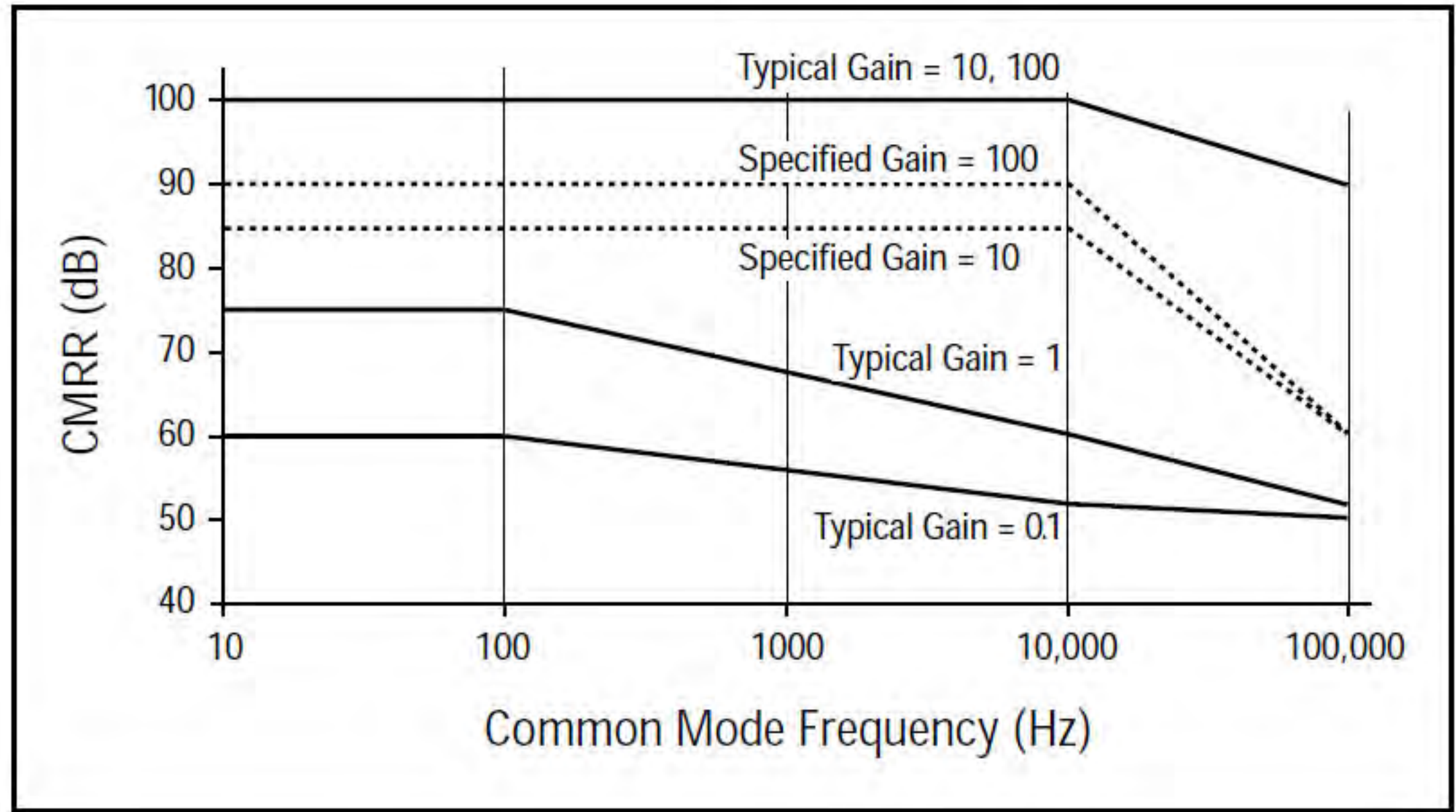
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# ADA400A Differential Preamplifier



## 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



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