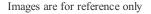


## AD620BRZ

## INST Amp Single ±18V 8-Pin SOIC N Tube

Manufacturer:	Analog Devices, Inc.
Package/Case:	SOP8
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free RoHS
Lifecycle:	Active





Inquiry

## **General Description**

The AD620 is a low cost, high accuracy instrumentation amplifier that requires only one external resistor to set gains of 1 to 10,000. Furthermore, the AD620 features 8-lead SOIC and DIP packaging that is smaller than discrete designs and offers lower power (only 1.3 mA max supply current), making it a good fit for battery powered, portable (or remote) applications.

The AD620, with its high accuracy of 40 ppm maximum nonlinearity, low offset voltage of 50  $\mu$ V max, and offset drift of 0.6  $\mu$ V/°C max, is ideal for use in precision data acquisition systems, such as weigh scales and transducer interfaces. Furthermore, the low noise, low input bias current, and low power of the AD620 make it well suited for medical applications such as ECG and noninvasive blood pressure monitors.

The low input bias current of 1.0 nA max is made possible with the use of Superőeta processing in the input stage. The AD620 works well as a preamplifier due to its low input voltage noise of 9 nV/ $\sqrt{\text{Hz}}$  at 1 kHz, 0.28  $\mu$ V p-p in the 0.1 Hz to 10 Hz band, and 0.1 pA/ $\sqrt{\text{Hz}}$  input current noise. Also, the AD620 is well suited for multiplexed applications with its settling time of 15  $\mu$ s to 0.01%, and its cost is low enough to enable designs with one in-amp per channel.

Key Features	Application
Easy to use	Weigh scales
Gain set with one external resistor	ECG and medical instrumentation
Higher performance than 3 op amp IA designs	Transducer interface
Low power	
Excellent DC performance (B grade)	Data acquisition systems
Low noise	Industrial process controls
120kHz Bandwidth ( $G = 100$ )	Battery-powered and portable equipment
15µs Settling time to 0.01%	



## **Recommended For You**

AD8309ARUZ Analog Devices, Inc TSSOP16

AD8221ARZ Analog Devices, Inc SOP8

ADA4930-2YCPZ-R7

Analog Devices, Inc

LFCSP24

AD633JRZ Analog Devices, Inc SOP8

ADCMP600BKSZ-R2 Analog Devices, Inc SC70-5 AD524BDZ Analog Devices, Inc CDIP-16

AD627BRZ Analog Devices, Inc SOP8

AD8034ARZ Analog Devices, Inc SOP8

AD632AH Analog Devices, Inc CAN10

AD620BN Analog Devices, Inc DIP8 AD8221BR

Analog Devices, Inc SOP-8

AD622ANZ Analog Devices, Inc

DIP8

AD8561ARZ Analog Devices, Inc SOP8

AD8422BRZ Analog Devices, Inc SOP8

AD620BR Analog Devices, Inc SOP