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various sensor interfaces, while optimizing SNR. Integrated PGIAs are available to achieve good dc and ac specifications.

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Charles Kitchen, Analog Devices,
2006. Instrumentation amplifiers (in-amps) are sometimes misunderstood. Not all amplifiers used in instrumentation applications are instrumentation amplifiers, and by no means are all in-amps used only in instrumentation applications. In-am

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tion applications are instrumentation amplifiers, and by no means are all in-amps used only in instrumentation applications. In-amps are used in many applications, from motor control to data acquisition to automotive. The intent of this guide is to explain the fundamentals

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of what an instrumentation amplifier is,
how it operates,

A Designer's Guide to Instrumentation Amplifiers, 3rd Edition

The AMP04 is a single-supply
instrumentation amplifier designed to
work over a +5 volt to ± 15 volt supply

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range. It offers an excellent combination of accuracy, low power consumption, wide input voltage range, and excellent gain performance. Gain is set by a single external resistor and can be from 1 to 1000. Input common-mode voltage range allows t

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In-Amp Diamond Plot Tool. The Diamond Plot Tool is a web application that generates a configuration-specific Output Voltage Range vs. Input Common-Mode Voltage graph, also known as the Diamond Plot, for Analog Devices Instrumentation Amplifiers.

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acquisition systems. At the input stage, there is a transducer device that converts the change in the physical quantity to an electrical signal.

Instrumentation Amplifier Circuit Design and Applications

Applications of instrumentation amplifier. Instrumentation amplifiers are

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used where there is a need of high differential gain accuracy, stability must be maintained within a noisy environment, and where large common-mode signals (usually at the ac power line frequency) are present.

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An easily recognizable medical application for amplifiers like these is in electrocardiography machines, or ECGs; which monitor the changes in the heart's dipole electric field. Below is the implementation of Analog Device's AD82X series of instrumentation amplifier in an ECG, from their application manual.

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You always have to be careful of input and output range when designing single supply op-amp circuits. In this case, imagine you have a +300mV dc offset at the AD8420 input. This means that in order to keep the difference between FB and REF equal to the difference between +IN and -IN, the integrator output would have to swing to -300mV dc.

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