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April 24, 2017

Analog Devices' MEMS Accelerometers Deliver Compelling Noise Performance for Condition Monitoring Applications

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) (ADI) today announced two high frequency, low noise MEMS accelerometers designed specifically for industrial condition monitoring applications. The ADXL1001 and ADXL1002 MEMS accelerometers deliver the high resolution vibration measurements necessary for early detection of bearing faults and other common causes of machine failure. Historically, inadequate noise performance of available high frequency MEMS accelerometers compared with legacy technology held back adoption, failing to take advantage of MEMS reliability, quality and repeatability. Today, the ADXL1001 and ADXL1002 noise performance over high frequencies is on par with available PZT technology, and make ADI MEMS accelerometers a compelling option for new condition monitoring products. The ADXL1001 and ADXL1002 are the latest examples of high performance precision sensing technology from Analog Devices, providing high quality and accurate data for Smart Factory Internet of Things applications, and enabling intelligent sensing from the edge of the network.

This Smart News Release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20170424005014/en/>



- | View the ADXL1001 product page, download data sheet, order samples and evaluation boards:
<http://www.analog.com/ADXL1001>
- | View the ADXL1002 product page, download data sheet, order samples and evaluation boards:
<http://www.analog.com/ADXL1002>
- | Learn more about ADI's MEMS accelerometer technology and products:

Analog Devices' MEMS Accelerometers Deliver Compelling Noise Performance for Condition Monitoring Applications (Photo: Business Wire)

<http://www.analog.com/en/products/mems/accelerometers.html>

- | Connect with engineers and ADI product experts on EngineerZone®, an online technical support community:
<https://ez.analog.com/welcome>

About the ADXL1001 and ADXL1002

The ADXL1001 and ADXL1002 MEMS accelerometers deliver ultra-low noise density over an extended bandwidth with high-

g range. The accelerometers are available in two models with full-scale ranges of $\pm 100g$ (ADXL1001) and $\pm 50g$ (ADXL1002). Typical noise density for the ADXL1002 is $25 \mu g/\sqrt{Hz}$, with a sensitivity of $40mV/g$, and $30 \mu g/\sqrt{Hz}$ for ADXL1001 with sensitivity $20mV/g$. Both accelerometers operate on single voltage supply from 3.0V to 5.25V, and offer useful features such as complete, electrostatic self-test and over range indicator. The ADXL1001 and ADXL1002 are rated for operation over a $-40^{\circ}C$ to $+125^{\circ}C$ temperature range.

Product Pricing and Availability Product Pricing and Availability

Product	Output Interface	Full-scale Range	Product Availability	Price Each per 1,000	Packaging
ADXL1001	Analog	$\pm 100 g$	Now	\$29.61	32 lead 5x5 mm LFCSP
ADXL1002	Analog	$\pm 50 g$	Now	\$29.61	32 lead 5x5 mm LFCSP

About Analog Devices

Analog Devices is the leading global high-performance analog technology company dedicated to solving the toughest engineering challenges. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure, power, connect and interpret. Visit <http://www.analog.com>

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Analog Devices, Inc.

Linda Kincaid

linda.kincaid@analog.com

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