

Analog Devices' MEMS Accelerometers Enable Early Detection of Structural Defects

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) (ADI) today announced three-axis, MEMS accelerometers that perform high resolution vibration measurement with very low noise to enable the early detection of structural defects via wireless sensor networks. The low power consumption of the new ADXL354 and ADXL355 accelerometers lengthens battery life and allows extended product usage by reducing the time between battery changes. The low noise performance of the ADXL354 and ADXL355 with low power consumption makes it now possible to cost-effectively enable low-level vibration measurement applications such as Structural Health Monitoring (SHM). Additionally, the tilt stability of ADXL354 and ADXL355 accelerometers delivers excellent repeatability over temperature and time, which is ideal for orientation and navigation systems in unmanned aerial vehicles using Inertial Measurement Units (IMUs) and inclinometers. By providing repeatable tilt measurement under all conditions, the new accelerometers enable minimal tilt error without extensive calibration in harsh environments.

This Smart News Release features multimedia. View the full release here:
<http://www.businesswire.com/news/home/20161003005015/en/>



- | View the ADXL354 product page, download data sheet, order samples and evaluation boards: <http://www.analog.com/ADXL354>
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The ADXL354 and ADXL355 accelerometers offer guaranteed temperature stability with null offset coefficients of 0.15mg/C (max). The stability minimizes resource and expense associated with calibration and testing effort, helping to achieve higher throughput for device OEMs. In addition, the hermetic package helps ensure that the end product conforms to its repeatability and stability specifications long after they leave the factory.

With output of $\pm 2g$ to $\pm 8g$ full scale range (FSR), selectable digital filtering from 1 Hz to 1 kHz, and low noise density of $25\mu\text{V}/\sqrt{\text{Hz}}$ at less than 200 μA current consumption, the ADXL354 and ADXL355 accelerometers offer performance level comparable to much more expensive devices with less power consumption and BOM cost.

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(Graphic: Business Wire).

Product Pricing and Availability

Product	Output Interface	Sample Availability	Full Production	Price Each per 1,000	Packaging
ADXL354	Analog	Now	Now	\$25.42	6x6 mm 14-

				lead LCC
ADXL355	SPI	Now	Now	\$28.25
				6x6 mm 14-lead LCC

About Analog Devices

Analog Devices (NASDAQ: [ADI](#)) designs and manufactures semiconductor products and solutions. We enable our customers to interpret the world around us by intelligently bridging the physical and digital worlds with unmatched technologies that sense, measure and connect. Visit <http://www.analog.com>.

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