



PRESS RELEASE FOR IMMEDIATE RELEASE – September 2012

For Editors

Providing Electronic Solutions

Willow PinPoints Low Cost Precision Navigation

Willow Technologies Limited (www.willow.co.uk) presents the new Silicon MEMS vibrating ring single-axis angular rate sensor from Silicon Sensing Systems. PinPoint® has been successfully developed for applications where navigation and pointing accuracy is essential, but size and power is at a premium.



PinPoint® is a tiny (6.3x5.5x2.7mm), yet powerful, surface mountable LCC ceramic packaged, single-axis MEMS angular rate sensor (gyro), capable of measuring angular velocity up to a maximum of $\pm 1,000^\circ/\text{s}$ which has two output modes; an analogue voltage signal which is linearly proportional to angular speed, and a digital signal in SPI® protocol. The choice of output mode; analogue or digital, is determined by the user when connecting it to the user's host PCB.

Available in two basic configurations, one which will measure angular velocity about an axis perpendicular to the plane of the host PCB, referred to as 'in-plane' sensing (Part Number CRM100) and one which measures angular velocity about an axis which is parallel to the plane of the host PCB, referred to as 'orthogonal' sensing (Part Number CRM200). With a combination of CRM100 and CRM200 it is possible for the user to measure angular rate of multiple axes (e.g. any combination of pitch, yaw and roll) from a single host PCB. Other inclined angle custom package options for in-dash vehicle navigation can be produced if required.

Said Martin Pearce, Marketing Director at Willow "PinPoint® is an excellent value, low cost precision navigation and pointing Gyroscope".

PinPoint® can be used in wide ranging applications; GPS vehicle and personal navigation aiding, vehicle yaw, pitch and roll rate sensing, gesture sensing, motion tracking, pointing devices, precision agriculture, antenna stabilisation, industrial & robotics. Its key performance parameters include low angular random walk ($0.28^\circ/\sqrt{\text{hr}}$), low bias instability ($24^\circ/\text{hr}$) over short integration period ($<1\text{s}$), User adjustable bandwidth up to 160Hz and low power consumption (4mA).

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Editor Information

Founded in 1989, Willow Technologies is located in Lingfield, Surrey, UK. We provide electronic solutions to customers by designing, manufacturing and supplying components and systems globally to the electrical and electronic marketplace. Specialists in switching, sensing, resistive and hermetic seal solutions we have a wide portfolio of sensing technologies and over 60 years of application experience. Our in-house engineering capability and rapid prototyping facility for custom parts enable us to develop products to match specific application requirements. Willow is ISO9001:2000 registered.

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