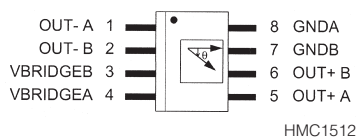
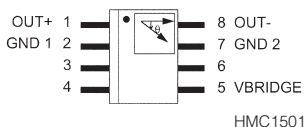


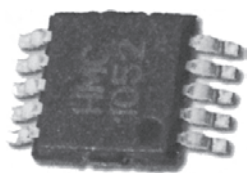
Honeywell



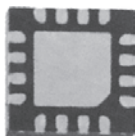
LINEAR/ANGULAR/ROTARY DISPLACEMENT SENSORS

High resolution, low power MR sensor capable of measuring the angle direction of a magnetic field from a magnet with $<0.07^\circ$ resolution. Direction versus field strength include: insensitivity to the tempo of the magnet, less sensitivity to shock and vibration, and the ability to withstand large variations in the gap between the sensor and magnet. These sensors may be operated on 3 volts with bandwidth response of 0-5 MHz. Output is typical Wheatstone bridge. **FEATURES AND BENEFITS:** The HMC1501 and HMC1512 can function with Alnico or ceramic type magnets HMC1501—angular range of $\pm 45^\circ$ with $<0.07^\circ$ resolution, HMC1512—angular range of $\pm 90^\circ$ with $<0.07^\circ$ resolution. Linear range of 8mm with two sensors mounted on two ends; range may be increased through multiple sensor arrays operating together. Sensors know the exact position and require no indexing for proper positional output. No moving parts to wear out; no dropped signals from worn tracks. Available in an 8-pin surface mount package with case dimensions (exclusive of pins), of 5mm x 4mm x 1.2mm total mounting envelope, with pins of less than 6mm square.

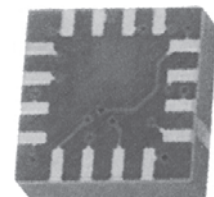
Cat. No.	Power Supply	Full Scale Output Range	Net Price
HMC1501	5V	120mV	\$24.94
HMC1512	5V	120mV	24.94



HMC 1052



HMC 1052L

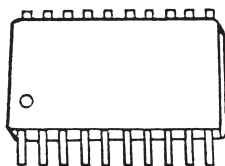


HMC 1053

ULTRA SMALL MAGNETIC SENSORS TWO AND THREE AXIS

The HMC105X family of magnetoresistive sensors is the ideal solution for applications requiring ultra small sensors. In addition to being the smallest size sensor available from Honeywell, they are capable of sensing fields below 100 micro-gauss. The HMC105X family of sensors are optimized for low-cost compassing and include several miniature package configurations. Applications include: compassing, navigation systems and heading/pointing.

Cat. No.	Package Style	Field Range	Resolution	Linearity	Net Price
HMC 1052	Two axis—MSOP10	± 6 Gauss	120 Micro gauss	0.05% Full Scale over the ± 1 gauss midpoint	\$24.94
HMC 1052L	Two axis—16-pin LCC	± 6 Gauss	120 Micro gauss	0.05% Full Scale over the ± 1 gauss midpoint	24.94
HMC 1053	Three axis—16-pin LCC	± 6 Gauss	120 Micro gauss	0.05% Full Scale over the ± 1 gauss midpoint	76.89

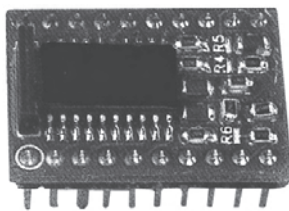


HMC1002
HMC1001

MAGNETIC SENSORS AND HIGH-TEMP ICs TYPE HMC1 SINGLE AND DUAL AXIS MAGNETIC SENSOR

Single and dual axis magnetic sensor for use in highest precision applications, such as currency detection, virtual reality headsets and compass heading electronics where precise understanding of direction or position is required. Two solid state sensors in single plastic package provide 0-10 MHz frequency response, operation over -55°C to $+125^\circ\text{C}$ and patented set/reset function for nulling out the effects of unwanted ambient magnetic fields. Unamplified voltage output.

Cat. No.	Field Range	Resolution	Full Scale Output	Net Price
HMC1002	± 2 Gauss	40 μ Gauss	50mV	\$27.43
HMC1001	± 2 Gauss	40 μ Gauss	50mV	24.94

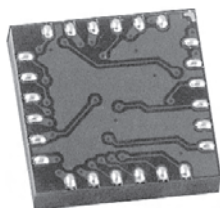


HMC2003

TYPE HMC2003 MAGNETIC SENSOR HYBRID

For use in high-precision applications such as vehicle control, compass heading detection or medical instruments where accurate position detection is required. Special packaging techniques provide high-resolution, temperature-compensated, amplified voltage outputs operating from single 6-15V supply. Single 20-pin DIP package. Integrated offset coils allow closed loop operation.

Cat. No.	Field Range	Resolution	Full-Scale Output	Net Price
HMC2003	±2 Gauss	70 μ Gauss	4.5V	\$248.15

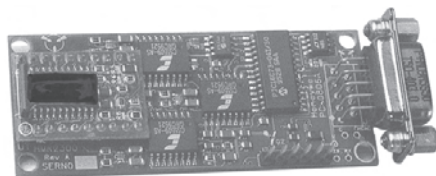


HMC6352

HMC6352 DIGITAL COMPASS SOLUTIONS

The HMC6352 compass solutions are miniature chip-scale modules that drop-in to your platforms with a 12C interface for the ultimate in electronic functionality. Accuracy: 3° heading accuracy, 0.3° resolution and 1° repeatability. Size: 6.5 × 6.5 × 1.4 mm LCC package. Calibration: embedded hard iron calibration compensates for distortions due to ferrous objects and stray fields. Applications include: compassing, platform leveling, integration with GPS, and dead reckoning.

Cat. No.	Net Price
HMC6352	\$248.49



HMR2300

HMR2300 SMART DIGITAL MAGNETOMETER

Card-level products are for industrial applications such as avionics and marine compassing, process control, vehicle detection, and security systems where highest resolution and direct digital interface is required. Embedded microcontroller enables combined error (non-linearity, hysteresis, repeatability, and temperature effects) band of 1% FSO over -55°C to +125°C range. Selectable features include: sampling rate, baud rate and output. Demo kit includes all cabling, complete user's manual, and DOS-based evaluation software.

Cat. No.	Field Range	Output	Enclosure	Net Price
HMR2300-DEMO	±2 Gauss	RS232	Yes	\$935.25
HMR2300-D21-232	±2 Gauss	RS232	Extended	871.65
HMR2300R	±2 Gauss	RS232	Extended	997.60

*One HMR2300 is in enclosure with HMPRC-001 cable, demonstration software, and ADS-14053 users manual.

NOTE: RS485 also available.

HMR3000 DIGITAL COMPASS MODULE

The HMR3000 is an electronically gimballed 3 axis compass that provides heading and tilt output via RS232 or RS485 protocols in an NMEA0183 format. Built with our own magnetoresistive sensors, the HMR3000 provides fast response time. Built in software auto-compensation techniques ensure that heading is accurate to 0.5 degrees with 0.1 degree resolution. Applications include marine and aviation compassing, oceanographic buoys, platform orientation, and backup GPS systems. Can be battery operated in remote locations.

Cat. No.	Field Range	Output	Enclosure	Net Price
HMR3000-DEMO*	±2 Gauss	RS323	Yes	\$935.25
HMR3000-D21-232	±2 Gauss	RS323	Extended	871.09

*One HMR3000 is in enclosure with HMPRC-001 cable, demonstration software, and ADS-14053 users manual.