	Sensor Isolator NEWS
February 2019	Electrifying News From NVE
In This lesus	Smart GMR Magnetometer
Smart Magnetometer	
0	Magnetoresistance (GMR) sensor element with sophisticated digital
Senan Sensor Ever Kil	signal processing.
Smart Sensor Programmer	An I ² C interface provides data as well as an external programming interface. A digital output provides precise, programmable thresholds
Smart Sensor Socket Board	Norwalatile Memory
Embedded World	Temperature Calibration Sensor
Quick Links	OMR 9 5 5
Sensor Selector Guide	Sensor
Isolator Selector Guide	
Online Store	Program Memory Core
Contact Us	
Y Twitter	Unlike awkward, old-fashioned Hall-effect sensors, GMR is sensitive
VouTube	in-plane for optimal current sensing and easy mechanical interfaces.
New on YouTube	Key SM124-10E features include: • Factory calibrated • Can detect magnets more than 50 mm away
The SM124-10E	7-bit output resolution
Smart GMR	 In-plane sensitivity—more usable than Hall effect sensors Factory calibrated
look)	Internal temperature compensation
The ridiculously	Optional magnet temperature compensation
simple SM124 Smart Magnetometer PC	 2.2 to 3.6V supply Ultraminiature 2.5 x 2.5 x 0.8 mm TDFN package
interface	Download the SM124 Datasheet >
Self-contained Smart Magnetometer	SM124-10Es are in stock for immediate delivery.
programmer	Buy Online
New GMR Current Sensor /	Association and Association
Microcontroller Evaluation Board	Evaluation Kit
Mechatronic	The AG952-07 Evaluation Kit has everything you need to calibrate, test, and evaluate the remarkable SM124-10E Smart Magnetometer:
Xylophone using ASR002 Apple	USB connector
Sensors	<u> </u>
	Test Points.
No Holiday at NVE	3.3V Output DOUT
NVE is open on President's Day Monday	IZCADDR Current trace
February 18.	opeonal resistor

The evaluation kit includes: • An evaluation board with:

- an SM124-10E sensor.

- a microcontroller conn r via PC
- a current-carrying trace under the sensor for eval current sensor.

Current

- A powerful, intuitive g
- ۰s
- Flexibility to pow m USB or exte hal power s
- ted USB int e for safety and low noise.
- ation Board to a comp USB cable to connect the Eval
- all cera cimity s • A si ng as a p ic n ag
- e's a live d



in stock for in mediate d

Buy Online \$9.95 shipping

Self-Contained SM124 Progra The new SM124 Smart GMR Magnetometer can be programmed for whatever magnetic threshold you want, and a ridiculously simple PC interface lets you program it from a microcontroller.



And we also offer a self-contained bo that lets you set the threshold with thumbwheel switches. No computer needed.

There is a pushbutton for rezeroing, and miniature thumbwheel switches for programming threshold and hysteresis. The module is powered by a small wall-mounted power supply (included).

Jumpers allow the SM124-10E to be disconnected from the rest of the board so the board can also be used as an interface to the ristomer's plantonic

Programming [

124 r

Buy Online \$9.95 shipping

Smart Magnetometer Socket Board The AG954-07E provides a socket for easy programming and prototyping of TDFN6 devices without soldering and unsolderi

The custom socket is compatible with NVE's 2.5 mm x 2.5 mm TDFN6 package parts (-10E suffixes), including the new SM124-10I Smart Magnetometer:



A 0.1"-spaced header provide row of 0.1"-spaced through-he decoupling capacitor or an LE tions to the sensors, and a r auxiliary parts such as a pital Output pin. uri Isa F

The board is 1.5" x 2" (38 mm x 50 mm), and uses brass h minimize magnetic interference with the socketed sensor. TDFN Socket Boards a

Buy Online \$9.95 shipping

Upcoming Conferences

Distributor Hy-Line Power will display NVE products at *Embedded World*, February 26 to 28, at Halle 1/Stand 170, Messe Nürnberg, Germany.