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**EDA Models**

NVE component symbols, footprints, and 3-D models are now available via [Snap EDA](#)

**Datasheet Revision**

The IL01x Low-Power Digital Isolator datasheet has been revised for extended power supply range of 2.5 to 5.5 volts: [Download IL01x Datasheet rev. B »](#)

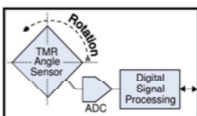
**No Holiday at NVE**

NVE is **open** on President's Day, Monday, February 17.

**I<sup>2</sup>C TMR Smart Angle Sensor**

We have expanded our industry-leading line of angle sensors with the new ASR012-10E Smart I<sup>2</sup>C TMR Smart Angle Sensor.

The ASR012 is based on the same TMR sensor element and digital processing core as the popular ASR002, but with an I<sup>2</sup>C rather than SPI interface. The new part also provides a PWM output.



Both the ASR012 and ASR002 have precise, factory-calibrated Tunneling Magnetoresistance (TMR) sensor elements, and sophisticated digital signal processing.

Key ASR002 / ASR012 features include:

- Factory calibrated
- 0.1° resolution
- ±0.2° repeatability
- Robust 6 to 20 mT magnetic field operating range
- Fast 12.5 kSps sample rate
- Flexible 2.2 V to 3.6 V supply range
- Low 4 mA typical supply current
- Wide -40°C to +125°C operating range
- Ultraminiature 2.5 x 2.5 x 0.8 mm TDFN package

Sensors and evaluation kits are available now for immediate delivery:

Part Number	Evaluation Kit	Repeatability	Speed	Outputs
<a href="#">ASR002-10E</a>	<a href="#">AG956-07</a>	0.2°	12500 Sps	SPI
<a href="#">ASR012-10E</a>	<a href="#">AG963-07</a>			I <sup>2</sup> C; PWM

[ASR012 Demonstration](#)

[Download the ASR012 Datasheet »](#)

**Buy Online**  
\$9.95 shipping

**Next-Gen Smart Sensor Demonstration Boards**

NVE has upgraded its [Smart Sensor](#) demo boards. As before, the boards include USB ports and easy-to-use PC user interfaces. The new boards also include headers for external connections, and PWM outputs to connect to voltmeters or data acquisition systems.



[AG952-07E](#)

SM124 1 mT General-Purpose Smart GMR Magnetometer Demo Board



[AG962-07E](#)

SM125 4 MT General-Purpose Smart GMR Magnetometer Demo Board



[AG953-07E](#)

SM225 Precision Smart TMR Magnetometer Demo Board



[AG956-07E / AG963-07E](#)

ASR002 / ASR012 Smart Angle Sensor Demo Boards

In addition to the new demo boards, in the [last issue](#) we announced [Smart Sensor breakout boards](#) with sensors mounted to boards with headers to connect to your own microprocessor or single-board computer.

**Upcoming Conferences**



Distributor Hy-Line Power will display NVE products at **Embedded World**, February 25 to 27, at Hall 1/Stand 170, Messe Nürnberg, Germany.

Featured new products will include [CAN FD Isolated Transceivers](#) and [3.3-Volt Bus Isolated RS-485 Transceivers](#)