Your Benefit – our Partners

The sensor market is one of the fastest growing markets in the world. Today you can find some kind of sensor in almost every application. GLYN offers a big variety of different products, covering common as well as special application requirements. We offer excellent technical, commercial and logistic support.
Our SENSOR Partners

Contents

SENSIRION Products .................................................................................................................. 4
TDK Products .............................................................................................................................. 6
ABLIC Products ........................................................................................................................... 8
SILICON LABS Products ............................................................................................................. 9
TAMURA Products ...................................................................................................................... 10
Support for your Success ............................................................................................................. 11
SENSIRION Products

SENSIRION is the world’s leading sensor manufacturer, providing relative humidity sensors, temperature sensors and flow sensor solutions with unique performance.

Humidity Sensors
Digital humidity sensors for precise, reliable and cost-effective humidity measurement in a variety of applications.
► Digital I²C- and Analog-output: 0 to 100 % RH, -40 to 125 °C

Temperature Sensors
High-accuracy digital temperature sensors for reliable temperature measurement.
► Digital I²C-output: -40 to 125 °C

Differential Pressure Sensors
Differential pressure sensors for gases. Measures accurately and offset free down to very low rates of differential pressure.
► Digital I²C-output: ± 25 to ± 1500 Pa
► Analog-output 0 to ± 3500 Pa

Gas Sensors
Metal-Oxide gas sensors for indoor air quality applications. Two air quality signals, digital I²C-output.
► Total volatile organic compounds (VOCs) output
► H₂-based CO₂ equivalent output
► Long-term stable, siloxane resistant

CO₂ Sensor
CMOSens® Technology for IR detection enables carbon dioxide measurements of high accuracy at a competitive price.
► Fully calibrated and linearized
► UART and I²C interface
Particulate matter (PM) sensor

SPS30 particulate matter (PM) sensor enables accurate measurements from the device’s first operation and throughout its lifetime of more than eight years.

► PM1.0, PM2.5, PM4, PM10
► UART and I²C interface

Mass Flow Meter for Gases

Mass flow meters for accurate and reliable measurement of gas flow. Successfully used in medical, HVAC and industrial applications.

► Analog-output: -24 to 240 slm
► Digital I²C: 0 to 20 slm, -100 to 250 slm, -200 to 200 slm, -250 to 250 slm

Mass Flow Controllers for Gases

Mass flow controllers for fast and precise control of gas flow. Designed for analytical instruments and different coating processes.

Liquid Flow Sensors

High precision liquid flow meters with measurement ranges down to nanoliters per minute.

► Analog-, I²C-, RS485-output

Evaluation Kits

SENSIRIONs evaluation kits enable easy testing, fast and reliable evaluation and qualification for a reduced time-to-market. We offer these kits for humidity, temperature, differential pressure, liquid flow, mass flow meters and also for volatile organic compounds (VOCs).
TDK Products

TDK offers an expanding range of sensors and sensor solutions, not only for the markets of the future such as IoT and Industry 4.0, but also for the established automotive and industrial application fields.

Hall Switch Sensors

The simplest application is to use the TDK-Micronas sensor as a „digital switch“. The magnetic field strength is measured and compared with a fixed threshold level predefined or programmable in the sensor.

- Programmable
- $T_J = -40$ to $170 \, ^\circ C$
- ISO 26262 compliant

Single-Axis Hall Sensors (Linear Hall Sensors)

TDK-Micronas Linear Hall sensors differ from the switches as follows: Depending on the magnetic field, the output does not have a discrete switching state, but provides a single proportional to the magnetic field strength.

- Programmable PWM frequency
- Magnetic range: $B_{\text{min}} = -100 \, \text{mT}$ to $B_{\text{max}} = \pm 200 \, \text{mT}$

Multi-Axis Hall Sensors (Direct Angle Sensors)

TDK-Micronas new types of Hall-effect sensors do not measure the absolute magnetic field anymore. So-called direct angle sensors capture the filed vector by measuring sine and cosine components of the magnetic field.

- Programmable PWM frequency
- Magnetic range: $B_{\text{min}} = \pm 20 \, \text{mT}$ to $B_{\text{max}} = \pm 100 \, \text{mT}$

TMR Angle Sensors

TDK’s TMR angle sensors are high-output, high-accuracy, and high-stability sensors that apply TMR (Tunnel Magneto Resistance) technology. These sensors provide an output signal, which is proportional to the angle and position information.

- Highest accuracy for angle error of just $\pm 0.05^\circ$
- Digital output for all major interfaces
- Contactless $360^\circ$ angle measurement
**Temperature Sensors**

*(NTC Thermistors)*

TDK sensors for temperature measurement can be found in every field of electronics applications. Apart from simple measurement in thermometers, they are used for open- and closed-loop process control as well as for the protection of valuable systems where critical temperatures have to be detected, for example, in the drives of electric vehicles.

---

**Pressure Sensors**

TDK offers the highest precision pressure measurement. Possible is a prerequisite for the automation of many industrial processes and is playing an increasingly important role in the introduction of Industry 4.0 concepts.

- Dimensions of just 0.65 x 0.65 mm with low profiles of just 0.24 mm
- Absolute pressure measurement from 0 to 10 bar

---

**Humidity Sensors**

TDK offers high-accuracy sensing elements achieved by their own polymeric materials and provide humidity sensor products that are extremely simple to apply.

---

**Inertial Sensors**

TDK-Tronics is the only provider of both closed-loop MEMS accelerometers and gyros, taking MEMS inertial sensors to an unrivalled level of performance.

---

**Motion Sensors**

TDK-InvenSense motion solutions, including gyroscopes, accelerometers, compasses and pressure sensors, detect and track an object’s motion in three-dimensional space.

---

**Sound Sensors**

TDK-InvenSense analog and digital microphone portfolios build on a strong heritage of industry firsts, including continuous improvement of MEMS microphone SNR, ever-higher integration levels and even lower power consumption.
Analog semiconductor products will play a more critical role in the accelerated shift to electronically enhanced automobiles and an IoT (Internet of Things) connected society, ABLIC provides customers high-quality semiconductor products and optimal solutions that meet customer needs.

Temperature Sensor ICs

ABLIC offers a lineup of analog- and digital-type output temperature sensor ICs.

- Digital output temperature ICs
- Analog output temperature sensor ICs
- PWM output temperature ICs
- Temperature switch ICs (Thermostat ICs)

Magnetic Sensor ICs

Hall effect ICs is a small-package integrated circuit capable of high-sensitivity, low current consumption operation. Combining this IC with magnets enables detection of open/close, rotation and sliding for various devices.

- Super low current consumption 1 μA
- Small package size – SNT-4A
- Detection type: unipolar, omnipolar, bipolar

Faint Signal Detection ICs

Normally-off faint signal detection ICs detect faint signals of a variety of electric generating devices and sensor devices. Current detection and voltage monitoring.

- Supply voltage 0.7 to 5.5 V
SILICON LABS is a leading supplier of intelligent sensor solutions characterized by superb reliability, compact size, high levels of integration, and unmatched ease of use for a variety of applications.

Temperature Sensors

These monolithic CMOS ICs feature a band-gap temperature sensor element, an analog-to-digital converter with up to 14-bit resolution, signal processing, calibration data, and an I^2C interface.

► Si705x can operate for several years with just a single coin cell battery

Humidity Sensors

These monolithic ICs combine fully calibrated humidity and temperature sensing elements, an I^2C or PWM interface and on-chip signal conditioning into a compact, rugged and reliable package.

Magnetic Sensors

SILICON LABS provides a wide array of magnetic sensing solutions for open/close or position detection. These parts feature best in class power and sensitivity to improve battery life, increase range, and reduce magnet size/cost.

Current Sensors

SILICON LABS isolated AC, high-side DC current sensors and Isolated AC mains monitors provide current sensing solutions for a wide range of power applications. The Si85xx/Si890x family is ideal for a broad range of applications including AC-DC switching power supplies, isolated DC-DC supplies, UPS systems, motor control and electronic lighting ballasts.

Optical Sensors

SILICON LABS optical sensor family enables sensing of UV index, ambient light, long range proximity, heart rate/pulse oximetry and motion with 2D or 3D gestures.
TAMURA Products

TAMURA supplies the sensor using the Hall-Effect system for measuring the current value from several amperes to several kilo-amperes. Over 80 years of experience supporting his customers engaged in industrial, consumer and medical applications.

Open Loop System

The advantages are giving the best solution for cost effective current measurement.
► +5 V, +12 V and ±15 V / 3 A up to 1500 A

Closed Loop System

The advantages are giving the best solution for accurate current measurement.
► +5 V, ±15 V, ±20 V and ±24 V / 6 A up to 2000 A

Fluxgate System

The use of the Fluxgate technology allowed achieving significantly better performance for the initial offset at 25 °C, offset drift and gain drifters.
► +5 V / 6 A up to 50 A
Support for your Success

For more than 35 years a reliable connection between our well known manufactures and customers.

- **Starterkits**: Evaluation tools and GLYN-made test boards
- **Sample boxes**: Fast and easy sample support
- **Seminars and Trainings**: We support you with extensive technical product know-how in our GLYN seminars and also with training at your facility
- **Logistic**: We offer innovative devices in the field of power and sensor technology in combination with the best logistic concept
Global Support Network

Germany

GLYN GmbH & Co. KG
Head Office

Am Wörtzgarten 8
D-65510 Idstein
www.glyn.de

Tel.: +49 6126 590-222
sales@glyn.de

International

Australia
GLYN Ltd.
Tel.: +61 2 8850-0320
www.glyn.com.au
sales@glyn.com.au

Austria & Eastern Europe
GLYN GmbH & Co. KG
(Germany)
Tel.: +43 2236 311112-0
www.glyn.at
sales@glyn.at

Benelux
GLYN GmbH & Co. KG
(Germany)
Tel.: +31 6 10930497
www.glyn.com
benelux@glyn.com

Denmark
GLYN GmbH & Co. KG
(Germany)
Tel.: +45 7020 1633
www.glyn-nordic.dk
sales@glyn-nordic.dk

Hungary
GLYN GmbH & Co. KG
(Germany)
Tel.: +36 1 204 9571
www.glyn.hu
sales@glyn.hu

New Zealand
GLYN Ltd.
Tel.: +64 9 415-9150
www.glyn.co.nz
sales@glyn.co.nz

Norway
Link Nordic AS
Tel.: +47 6988-9899
www.linknordic.com
sales@linknordic.com

Poland
GLYN GmbH & Co. KG
(Germany)
Tel.: +48 71 7828-758
www.glyn.pl
sales@glyn.pl

Sweden
GLYN GmbH & Co. KG
(Germany)
Tel.: +46 293 300-84
www.glyn.se
sales@glyn.se

Switzerland
GLYN GmbH & Co. KG
Branch Office
CH-8133 Esslingen / Egg
Tel.: +41 44 944 55-00
www.glyn.ch
sales@glyn.ch

© 2019-08 by GLYN GmbH & Co. KG

We will gladly provide you with further products from our manufacturers on request.
Please note that in some countries, specific or restrictive agreements have been reached with various manufacturers.

WEEE-Reg.-Nr. DE: 77660497