

# CONSUMER SENSORS

TE Connectivity (TE) is a global technology leader, providing connectivity and sensor technologies essential in today's increasingly connected world. TE is one of the largest sensor companies in the world. Our sensors are vital to the next generation of data-driven technology.

Sensor evolution is driving innovation in consumer applications. This rapid adoption of technology spans many markets including fitness and exercise, wearable technology, sports and sports training productivity. TE Connectivity, with its decades of engineering expertise, extensive manufacturing capabilities and global footprint is supporting this trend by offering OEMs a variety of sensors that have a minimal physical footprint, low power requirements and attractive high volume pricing.

- COMBINATION
- DIGITAL SENSORS AND DEVELOPMENT BOARDS
- FORCE
- HUMIDITY
- PHOTO OPTIC
- PIEZO FILM
- POSITION
- PRESSURE
- TEMPERATURE

### APPLICATIONS

- Cycle Computers
- Dive Computers
- Fitness Equipment
- GPS Devices
- Hair Care
- Hobby Drones
- Mobile (Smart) Phones
- Multi-Function Watches
- Room Comfort
- Sleep Monitors
- Smart Scales
- Smart Sensor Hub
- Smart Writing Tools
- Weather Stations

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## PRESSURE SENSORS

### MS5607/MS5611

The MS5607-02BA is a new generation of high resolution altimeter sensors with SPI and I<sup>2</sup>C bus interface.



### MS5637

The MS5637-30BA is a high resolution miniature industrial pressure sensor with I<sup>2</sup>C bus interface.



### MS5805

The MS5805-02BA is a high-resolution altimeter sensor with I<sup>2</sup>C bus interface.



### MS5837

The MS5837 is a high resolution pressure sensor with I<sup>2</sup>C bus interface for depth measurement systems with a water depth resolution of 2mm.



### MS5839

The MS5839-02BA is an ultra-compact pressure and temperature sensor that is optimized for applications where chlorine and saline are present.



### MS5840

The MS5840 is a low profile, ultra-compact, water resistant digital pressure and temperature sensor optimized for applications with small space constraints.



### MS4515/MS4525

The MS4515 and MS4525 are small, ceramic based, PCB mounted pressure transducers.



### MS5525

The MS5525 is a digital small outline pressure sensor with SPI and I<sup>2</sup>C bus interface designed for high volume OEM users.



### MS5540/MS5541

The MS5541-30C is the high-pressure version of MS5541C pressure sensor module.



### MS4425/MS4426

The MS4425 and MS4426 are temperature compensated, piezoresistive silicon pressure sensors packaged in a dual in-line configuration and intended for cost-sensitive applications where excellent performance and long-term stability are required.



## COMBINATION SENSORS

### MS8607

The MS8607 is the novel digital combination sensor providing three environmental physical measurements all-in-one: pressure, humidity and temperature (PHT).



## HUMIDITY SENSORS

### HS1101LF

The HS1101LF relative humidity sensors are designed for high volume applications such as office automation, automotive cabin air control, home appliances and industrial process control systems.



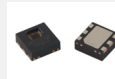
### HTU21D

The HTU21D(F) relative humidity sensors provide digital outputs for humidity and temperature in I<sup>2</sup>C formats.



### HTU31D

The HTU31D humidity and temperature sensor is one of the smallest and most accurate humidity sensors on the market. Available in digital and analog versions, the HTU31 provides fast response time, precision measurement, low hysteresis and sustained performance, even in the harshest environments.



### HTF3000LF

The HTF3000LF PVF-3.3 is a dedicated humidity and temperature transducer designed for OEM applications where reliable and accurate measurement is critical.



### HTU3500

The HTU3500 series are dedicated humidity and temperature plug and play transducers designed for OEM applications where reliable and accurate measurements are needed.



## TEMPERATURE SENSORS

### TSYS Series

The Temperature System Sensors (TSYS) are digital temperature sensors providing industry leading 0.1° accuracy available in miniature packages.



### Nickel RTD

The Nickel RTD elements are designed for harsh environments, have very small dimensions and provide good linearity with a high temperature coefficient.



### Platinum Thin Film Chips

The platinum thin-film chips come in industry standard sizes and provide excellent long-term stability, high accuracy and fast response time.



### Platinum Thin Film Sensors

The platinum thin film temperature sensors are designed to provide precise, stable measurement in extreme temperature applications. These sensors offer high value through proven design, ease-of-use, reliable performance and quick availability.



### Radial Leaded Thermistors

The BetaCURVE Series I NTC thermistors are small epoxy coated devices with solid tin-plated lead wires.



### TS Series

The digital temperature sensors providing industry leading 0.1°C accuracy. The optimized microcircuit design allows fast conversion times along with very low power consumption.



### TSEV

The TSEV is a contact-less temperature measuring system for OEM use based on the detection of infrared radiation.



## FORCE SENSORS

### FC22

The FC22 is a medium compression force sensor that creates new markets previously unrealized due to cost and performance constraints.



### FS19

The FS19 load cell, with ranges from 500G to 3000G, uses proven MEMS sensor technology derived from demanding aerospace and automotive applications which employs micro-machined piezoresistive strain gages fused with high temperature glass to a high performance stainless steel force measuring flexure.



### FS20

The FS20 series low compression force sensor offers normalized zero and span for interchangeability and is thermally compensated for changes in zero and span with respect to temperature.



### FX19

The FX1901 units are intended for OEM use in laboratory, hospital or consumer product applications, establishing a breakthrough price-to-performance value for compression load cells.



### FX29

The FX29 is a compact compression load cell that offers exceptional price-to-performance in a robust sensor package with a millivolt, analog, or digital output signal.



## PIEZO FILM SENSORS

### Piezo Cable

The piezo cable is another form of piezo polymer sensors. Designed as a coaxial cable, the piezo polymer is the dielectric between the center core and the outer braid.



### FLDT1

The FLDT1 are rectangle elements of piezo film with silver ink screen printed electrodes.



### LDTC Analog PCB

The LDT1-028K is a multi-purpose, piezoelectric sensor for detecting physical phenomena such as vibration or impact.



### DTI & SDTI

The DT and SD series of piezo film sensor elements are rectangular elements of piezo film with silver ink screen printed electrodes.



## POSITION SENSORS

### KMY/KMZ

The KMY/KMZ linear magnetic field sensors can sense very weak magnetic fields, like the earth's magnetic field, or fields generated by small magnetic particles.



### MS32

The MS32 is a magnetic field sensor which is built in the form of a Wheatstone bridge.



## POSITION SENSORS

### KMT32B

The KMT32B is a magnetic field sensor based on the anisotropic magneto resistance effect, i.e. it is sensing the magnetic field direction independently on the magnetic field strength for applied field strengths H>25 kA/m.



### KMT36H

The KMT36H is a magnetic field sensor utilizing the anisotropic magneto resistance effect.



### KMA36

The KMA36 is a highly reliable universal magnetic position sensor IC for precise rotational or linear measurement with a resolution up to 0.04 degrees.



### DPL/DPN-Series

The DPL/DPN-Series is modern SMD technology based small board-level dual axis inclinometer applying conductive technology.



## PHOTO OPTIC SENSORS

### ELM 4000

The ELM 4000 is an SpO<sub>2</sub> optical sensor component that provides leading accuracy in oxygen level detection.



### EPM 4001

The EPM-4001 photo optic detector assembly uses a silicon planar diffused photodiode specially designed for medical applications. It features high efficiency and fast response.



## DIGITAL SENSORS AND DEVELOPMENT BOARDS

### Wireless Sensor Tag Demo

The wireless sensor is a self-contained pressure, humidity and temperature sensor that is fully calibrated during manufacture.

