



In addition, all sensors are backed by a 3-year warranty.



For detailed specifications and integration guidelines, refer to the product documentation.



TST100 IP65 temperature sensor

Overview

TST100 is a 1-Wire temperature sensor designed for reliable and accurate environmental monitoring. Its compact and robust design allows indoor and outdoor use, making it suitable for various industrial and commercial applications.

The sensor incorporates a fully calibrated digital output, ensuring precise and consistent readings. Its unique 64-bit serial code enables multiple sensors to operate on a single 1-Wire bus, providing scalable monitoring solutions. TST100 is ideal for integration with remote monitoring systems, offering dependable performance and straightforward installation.

Its flat aluminum head ensures good thermal contact and fast response time in dynamic conditions.

Key Specifications

- Operating temperature range: -40 to $+85$ °C / -40 to $+185$ °F.
- Accuracy (@ -10 to $+85$ °C): ± 0.5 °C / ± 0.9 °F.
- Accuracy (@ -40 to -10 °C): ± 2.0 °C / ± 3.6 °F.
- Ingress protection: IP65.
- Warranty: 3 years.
- Supply voltage range: 3.0–5.5 VDC.
- Current consumption: max. 1.5 mA.
- Head dimensions: $8 \times 8 \times 23$ mm.
- Cable length: 1 meter.

Applications

- Temperature monitoring in server rooms and network cabinets.
- Surface or wall-mounted sensing.
- Temperature tracking in building automation systems.
- Climate control feedback for HVAC installations.

www.teracomsystems.com/sensors/1-wire-temperature-sensor-tst100



TST100s IP65 temperature sensor

Overview

TST100S is a 1-Wire temperature sensor built for precise and dependable environmental measurement. With a rugged and space-saving form factor, it is suitable for both indoor and outdoor installations across industrial and commercial environments.

The sensor delivers fully calibrated digital output for consistent accuracy. Each unit features a unique 64-bit serial number, allowing multiple sensors to share a single 1-Wire network - ideal for scalable and flexible systems.

The cylindrical stainless steel probe ensures excellent durability and thermal conductivity, making it ideal for immersion, contact, or ambient temperature measurement in demanding environments.

Key Specifications

- Operating temperature range: -40 to $+85$ °C / -40 to $+185$ °F.
- Accuracy (-10 to $+85$ °C): ± 0.5 °C / ± 0.9 °F.
- Accuracy (-40 to -10 °C): ± 2.0 °C / ± 3.6 °F.
- Ingress protection: IP65.
- Warranty: 3 years.
- Supply voltage range: 3.0–5.5 VDC.
- Current consumption: max. 1.5 mA.
- Head dimensions: $\varnothing 6 \times 30$ mm.
- Warranty: 3 years.

Applications

- Server room and data centers temperature monitoring.
- Temperature monitoring inside buildings or machinery.
- Heating, ventilation and air conditioning (HVAC) systems.
- Process monitoring and control systems.

www.teracomsystems.com/sensors/1-wire-temperature-sensor-tst100s





TST103 Temperature sensor

Overview

TST103 is a 1-Wire temperature sensor designed for accurate indoor monitoring in IT and industrial environments. It is housed in a compact plastic enclosure with a dedicated mounting detail, allowing easy installation on flat surfaces or 19-inch server racks.

The sensor features a factory-calibrated digital output, ensuring precise and reliable temperature readings. It is equipped with two RJ12 connectors for quick daisy-chain connection of multiple sensors on a single 1-Wire bus. Each unit features a unique 64-bit serial number for seamless identification in multi-sensor setups.

TST103 offers a discreet and practical solution for real-time temperature monitoring, supporting early detection of thermal anomalies and helping maintain optimal environmental conditions.

Key Specifications

- Operating temperature range: -40 to $+85$ °C / -40 to $+185$ °F.
- Accuracy (@ -10 to $+85$ °C): ± 0.5 °C / ± 0.9 °F.
- Accuracy (@ -40 to -10 °C): ± 2.0 °C / ± 3.6 °F.
- Operating humidity range: 5 to 85 %RH (non-condensing).
- Ingress protection: IP20.
- Supply voltage range: 3.0–5.5 VDC.
- Current consumption: max. 1.5 mA.
- Connectors: two RJ12 ports.
- Warranty: 3 years.

Applications

- Temperature monitoring in server rooms and network equipment racks;
- Indoor climate monitoring in offices, labs, or equipment rooms;
- Integration in BMS for temperature tracking.

www.teracomsystems.com/sensors/digital-temperature-sensor-tst103



TST200 Pt100 temperature sensor

Overview

TST200 is a high-accuracy 1-Wire transmitter for Pt100 temperature sensors, designed for industrial and scientific applications requiring extended temperature measurement range and precision. It enables reliable temperature monitoring from -200 to $+850$ °C (-328 to $+1560$ °F) when connected to compatible Teracom controllers.

The device integrates a 24-bit analog-to-digital converter with digital signal processing, ensuring stable and drift-free performance across long-term deployments. It supports 3-wire or 4-wire Pt100 sensor connections.

Equipped with two RJ12 connectors, TST200 allows straightforward daisy-chaining on the 1-Wire bus, simplifying multi-point temperature sensing in demanding environments.

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to $+140$ °F.
- Operating humidity range: 5 to 85 %RH (non-condensing).
- Measurement range: -200 to $+850$ °C / -328 to $+1560$ °F.
- Accuracy: 0.2 °C ± 0.05 % of reading.
- Resolution: 24-bit.
- Ingress protection: IP20.
- Supply voltage range: 3.5–5.5 VDC.
- Current consumption: max. 6.0 mA.
- Connectors: two RJ12 ports.
- Warranty: 3 years.

Applications

- Temperature monitoring in industrial processes and automation systems.
- Cryogenic storage and laboratory environment supervision.
- Furnace and high-temperature equipment regulation.



www.teracomsystems.com/sensors/1-wire-pt100-transmitter-tst200



TST300 Temperature sensor

Overview

TST300 is a high-precision temperature sensor with an RS-485 interface, designed for accurate environmental monitoring in IT, industrial, and building management systems. Its compact plastic enclosure allows easy installation on flat surfaces or 19-inch server racks.

The sensor provides a factory-calibrated digital output with high accuracy and low drift. It supports MODBUS RTU communication and includes two RJ45 connectors for quick daisy-chain wiring in multi-sensor RS-485 networks. Each unit features a unique identifier, enabling easy addressing and system integration.

TST300 offers a reliable solution for continuous temperature monitoring, ideal for temperature-sensitive environments where

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Accuracy (@ +20 to +60 °C): ± 0.13 °C / ± 0.23 °F.
- Accuracy (@ -20 to +20 °C): ± 0.25 °C / ± 0.45 °F.
- Ingress protection: IP20.
- Supply voltage range: 4.5–26 VDC.
- Current consumption: 7 mA @ 5 VDC.
- Dimensions: 85 x 35.1 x 23.5mm.
- Connectors: two RJ45 ports.
- Warranty: 3 years.

Applications

- Precision temperature monitoring in industrial control systems.
- Environmental control in pharmaceutical or food storage.
- Integration in MODBUS-based building management systems.
- Precision monitoring in laboratory and industrial facilities.

www.teracomsystems.com/sensors/rs485-precision-temperature-sensor-tst300



MODBUS
RTU

Temperature

TST320 MODBUS RTU thermocouple module

Overview

TST320 is a 2-channel thermocouple module with RS-485 interface, designed for accurate temperature monitoring in industrial environments. It supports type J, T, and K (-200°C to +1372°C / -328°F to +2501°F) thermocouples and uses the MODBUS RTU protocol for easy integration with controllers and SCADA systems.

The module includes cold junction compensation and internal processing for stable, precise readings. Both channels are independently configurable, allowing flexible use in ovens, furnaces, and HVAC systems.

With a compact DIN-rail mountable enclosure and wide temperature tolerance, TST320 provides a reliable solution for remote high-temperature monitoring and control.

Key Specifications

- Operating temperature range: -20 to 60°C / -4 to +140°F.
- Operating humidity range: 5 to 95 %RH (non-condensing).
- Supported thermocouple types: J, T, K.
- Number of channels: 2 (independently configurable).
- Accuracy: 0.2 °C $\pm$ 0.05 % of reading.
- ADC resolution: 24-bit.
- Ingress protection: IP40 (connections IP20).
- Supply voltage range: 5–28 VDC.
- Current consumption: max. 15 mA @ 12 VDC.
- Warranty: 3 years.

Applications

- Temperature monitoring in manufacturing processes.
- Kilns, ovens, and industrial heating equipment monitoring.
- Remote temperature sensing in harsh environments.
- Food processing and storage temperature logging.

www.teracomsystems.com/sensors/2-channel-thermocouple-module-with-modbus-rtu-interface



MODBUS
RTU

Temperature



TSH202 Humidity and temperature sensor

Overview

TSH202 is a 1-Wire temperature and humidity sensor designed for accurate and stable monitoring in indoor or protected environments. It integrates a factory-calibrated digital element that ensures reliable long-term measurements with minimal drift.

Its compact design with a fixed 1-meter cable allows flexible placement in cabinets, ducting, or embedded systems. The sensor supports seamless integration with 1-Wire-enabled controllers for HVAC, automation, and energy monitoring applications.

TSH202 offers a discreet and robust solution for reliable climate data collection in tight or space-restricted installations



Key Specifications

- Operating temperature range: -20 to 60°C / -4 to +140°F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Accuracy (@ -10°C to +60 °C): ±3.0 %RH.
- Accuracy (@ -10°C to +60 °C): ±0.4 °C / ±0.72 °F.
- Ingress protection: IP00.
- Supply voltage range: 4.0–5.5 VDC.
- Current consumption: 5 mA @ 5 VDC.
- Dimensions: 45 x 16 x 10 mm.
- Cable length: 1 meter.
- Warranty: 3 years.

Applications

- Temperature and humidity monitoring in buses and public transport cabins.
- Environmental control in truck cargo compartments.
- HVAC regulation in commercial and office buildings.

www.teracomsystems.com/sensors/1-wire-humidity-temperature-sensor-tsh202

TSH202B Humidity and temperature sensor

Overview

TSH202B is a 1-Wire temperature and humidity sensor enclosed in a low-profile plastic housing, designed for wall or panel-mounted indoor applications. It features a factory-calibrated digital sensor for accurate and consistent data across a wide range of conditions.

Its enclosed structure offers added mechanical protection and simplifies installation in server rooms, offices, and control panels. The sensor connects via flying leads, providing flexibility for different wiring configurations.

TSH202B is ideal for fixed-location climate monitoring where reliability, easy setup, and compact form factor are essential.



Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Accuracy (@ -10°C to +60 °C): ±3.0 %RH.
- Accuracy (@ -10°C to +60 °C): ±0.4 °C / ±0.72 °F.
- Ingress protection: IP00.
- Supply voltage range: 4.0–5.5 VDC.
- Current consumption: 5 mA @ 5 VDC.
- Dimensions: 62 x 28 x 16 mm.
- Cable length: 1 meter.
- Warranty: 3 years.

Applications

- Climate condition monitoring in buses, trains, and trams.
- Room-level HVAC control in industrial facilities.
- Tracking temperature and humidity in refrigerated truck units.
- Furnace and high-temperature equipment regulation.

www.teracomsystems.com/sensors/compact-humidity-temperature-sensor-tsh202b



TSH231 Waterproof 1-Wire humidity and temperature sensor

Overview

TSH231 is a waterproof temperature and humidity sensor with a 1-Wire interface.

The sensor integrates basic elements plus signal processing and provides a fully calibrated digital output. A unique capacitive element is used for measuring relative humidity while the temperature is measured by a bandgap element. Both elements are seamlessly coupled to a 12-bit analog to digital converter. This results in superior signal quality.

The digital sensor is mounted in an IP65-rated enclosure. This provides protection against dust and water sprays. A cable gland and screwless terminal block allows easy cable installation.



1-Wire

Temperature

Humidity

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Accuracy (@ -10 to +60 °C): ± 0.4 °C / ± 32.9 °F.
- Accuracy (@ 20 to 80 %RH): ± 3.0 %RH.
- Ingress protection: IP54.
- Supply voltage range: 4.5–26 VDC.
- Current consumption: 5 mA @ 5 VDC.
- Dimensions: 68 x 105 x 35 mm.
- Connectors: screwless terminal block.
- Warranty: 3 years.

Applications

- Fleet management systems.
- Climate monitoring in agricultural environments.
- Humidity and temperature logging for telco facilities.
- Server room and data centers humidity and temperature monitoring.

www.teracomsystems.com/sensors/waterproof-temperature-and-humidity-sensor-tsh231

TSM400-1-TH Humidity and temperature sensor

Overview

The TSM400-1-TH is a temperature and humidity sensor designed for indoor applications using the 1-Wire digital interface. It combines a precision capacitive humidity element and a bandgap temperature sensor, integrated with a 12-bit analog-to-digital converter for accurate digital output.

Housed in a low-profile, ventilated plastic enclosure, the sensor is optimized for wall mounting in areas where appearance and airflow are equally important. Its modern and discreet design makes it particularly suitable for use in office buildings, public institutions, and other indoor commercial environments. Each sensor includes a unique 64-bit serial number, allowing multiple devices to coexist on the same 1-Wire network.



1-Wire

Temperature

Humidity

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Accuracy (@ -10 to +60 °C): ± 0.4 °C / ± 32.9 °F.
- Accuracy (@ 20 to 80 %RH): ± 3.0 %RH.
- Ingress protection: IP20.
- Supply voltage range: 4.5–26 VDC.
- Current consumption: 10 mA @ 5 VDC.
- Dimensions: 81 x 81 x 30 mm.
- Connectors: screwless terminal block.
- Warranty: 3 years.

Applications

- Indoor climate monitoring in office buildings.
- Environmental control in hospitals, clinics, and waiting areas.
- Temperature and humidity tracking in classrooms and educational facilities.

www.teracomsystems.com/sensors/1-wire-temperature-and-humidity-sensor-tsm400-1-th



TSH206 Humidity and temperature sensor

Overview

TST103 is a digital temperature sensor with a 1-Wire interface. It is an excellent solution for temperature monitoring and control.

It focuses on applications that require precise temperature monitoring – server rooms, offices, drug and food stores, etc. It is also suitable for smart office applications, as well as for data loggers and thermostats.

TST103 communicates with controllers over a 1-Wire bus. Each sensor has a unique 64-bit serial code, which allows multi-sensors support over the same 1-Wire bus. The digital temperature sensor utilizes two RJ11 connectors for an easy daisy chain wiring.



1-Wire

Temperature

Humidity

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Accuracy (@ -10 to +60°C): ± 0.4 °C / ± 32.9 °F.
- Accuracy (@ 20 to 80 %RH): ± 3.0 %RH.
- Ingress protection: IP20.
- Supply voltage range: 4.0–5.5 VDC.
- Current consumption: 5 mA @ 5 VDC.
- Dimensions: 85 x 35.1 x 23.5 mm.
- Connectors: 2 x RJ45.
- Warranty: 3 years.

Applications

- Environmental monitoring in telecommunications facilities.
- Temperature and humidity control in server rooms.
- Climate supervision in laboratories and R&D environments.
- Indoor monitoring for energy-efficient building automation.

www.teracomsystems.com/sensors/digital-humidity-temperature-sensor-tsh206



TSH300 Humidity and temperature sensor

Overview

The TSH300 is a digital humidity and temperature sensor designed for indoor environmental monitoring. It communicates via RS-485 using the MODBUS RTU protocol and provides accurate readings through a capacitive humidity sensor and a bandgap temperature sensor, internally processed with 12-bit resolution.

The device is housed in a compact, ventilated plastic enclosure, suitable for wall mounting in technical and commercial spaces. It features two RJ45 connectors for straightforward daisy-chain wiring in MODBUS RTU networks, allowing quick integration into multi-device systems.

Factory calibration ensures stable and reliable performance without the need for field adjustment.

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Accuracy (@ -10 to +60°C): ± 0.4 °C / ± 32.9 °F.
- Accuracy (@ 20 to 80 %RH): ± 3.0 %RH.
- Ingress protection: IP20.
- Supply voltage range: 4.5–26 VDC.
- Current consumption: 5 mA @ 5 VDC.
- Dimensions: 85 x 35.1 x 23.5 mm.
- Connectors: 2 x RJ45.
- Warranty: 3 years.

Applications

- Environmental monitoring in telecommunications facilities.
- Temperature and humidity control in server rooms.
- Climate supervision in laboratories and R&D environments.
- Indoor monitoring for energy-efficient building automation.

www.teracomsystems.com/sensors/rs-485-humidity-and-temperature-sensor-tsh300



TSH331 IP54 Modbus RTU temperature and humidity sensor

Overview

TSH331 is an IP54 temperature and humidity sensor with an RS-485 interface. It supports the Modbus RTU protocol. The temperature and humidity sensor integrates core sensing elements with signal processing and provides a fully calibrated digital output. A unique capacitive element is used to measure relative humidity, while temperature is measured using a band gap sensor. Both sensors are seamlessly coupled to a 12-bit analog-to-digital converter, resulting in superior signal quality. A cable gland with locknut and a screwless terminal block allow easy cable installation.

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Accuracy (@ -10 to +60°C): ± 0.4 °C / ± 32.9 °F.
- Accuracy (@ 20 to 80 %RH): ± 3.0 %RH.
- Ingress protection: IP54.
- Supply voltage range: 4.5–26 VDC.
- Current consumption: 5 mA @ 5 VDC.
- Dimensions: 68 x 105 x 35 mm.
- Connectors: screwless terminal block.
- Warranty: 3 years.

Applications

- Fleet management systems.
- Environmental monitoring in semi-outdoor industrial facilities.
- Humidity and temperature logging for telco facilities.
- Server room and data centers humidity and temperature.

www.teracomsystems.com/sensors/ip54-temperature-and-humidity-sensor-tsh331





TSM400-4-TH Temperature and humidity sensor

Overview

The TSM400-4-TH is a digital temperature and humidity sensor designed for indoor environments, communicating over RS-485 with MODBUS RTU protocol. It integrates a high-precision capacitive humidity sensor and a bandgap temperature sensor, supported by a 12-bit ADC for reliable and accurate measurements.

The sensor is housed in a slim and ventilated plastic enclosure suitable for flush mounting in standard wall boxes (68 mm diameter, 61 mm screw spacing). Its discreet and modern design makes it ideal for use in offices, educational institutions, and other public spaces.

The device also features a communication status LED and configurable interface parameters via MODBUS commands.

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Accuracy (@ -10 to +60°C): ± 0.4 °C / ± 32.9 °F.
- Accuracy (@ 20 to 80 %RH): ± 3.0 %RH.
- Ingress protection: IP20.
- Supply voltage range: 4.5–26 VDC.
- Current consumption: 10 mA @ 5 VDC.
- Dimensions: 81 x 81 x 30 mm.
- Connectors: screwless terminal block.
- Warranty: 3 years.

Applications

- Indoor climate monitoring in office buildings.
- Environmental control in schools and universities.
- Temperature and humidity tracking in museums and libraries.
- Integration into Building Management Systems (BMS).

www.teracomsystems.com/sensors/modbus-humidity-and-temperature-sensor-tsm400-4-th



TSM400-4-CPTH CO₂, pressure, temperature and humidity sensor

Overview

The TSM400-4-CPTH is a compact multi-sensor for indoor environmental monitoring, capable of measuring carbon dioxide (CO₂), relative humidity, ambient temperature, and barometric pressure. Communication is via RS-485 using the MODBUS RTU protocol.

The CO₂ sensor is based on advanced non-dispersive infrared (NDIR) technology with automatic self-calibration to ensure long-term accuracy. The humidity, temperature, and pressure sensors are factory-calibrated and require no recalibration during their lifetime.

Its discreet wall-mount enclosure makes it ideal for use in public and commercial buildings where both functionality and aesthetics are important.

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90%RH (non-condensing).
- CO₂ measurement range: 400 to 5000 ppm.
- Pressure measurement range: 10 to 1200 hPa.
- Accuracy (@ -10 to +60°C): ± 0.4 °C / ± 32.9 °F.
- Accuracy (20 to 80 %RH): ± 3.0 %RH.
- Accuracy CO₂: $\pm (40 \text{ ppm} + 5\%)$.
- Accuracy pressure (25 °C, 750 hPa): ± 1.5 hPa.
- Supply voltage range: 4.5–26 VDC.
- Current consumption: 25 mA @ 5 VDC (Peak: 150 mA @ 5VDC).

Applications

- CO₂ level supervision in restaurants, meeting rooms, and shared indoor spaces.
- Indoor air quality monitoring in office buildings.
- Smart HVAC and ventilation control systems.

www.teracomsystems.com/sensors/co2-humidity-and-temperature-multi-sensor-tsm400-4-cpth



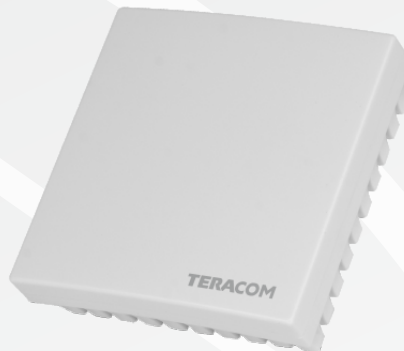


TSM400-4-CP CO₂ and pressure sensor

Overview

The TSM400-4-CP is a dual-parameter sensor designed to measure carbon dioxide (CO₂) concentration and barometric pressure in indoor environments. It communicates over RS-485 using the MODBUS RTU protocol and is ideal for integration into smart building and ventilation control systems.

The CO₂ sensing element is based on advanced non-dispersive infrared (NDIR) technology with automatic self-calibration for long-term stability and accuracy. The barometric pressure sensor is factory-calibrated and maintenance-free. The device is housed in a slim plastic enclosure designed for flush wall mounting in standard 68 mm electrical boxes, making it suitable for use in commercial and public indoor spaces where discreet appearance is important.



Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 5 to 95 %RH (non-condensing).
- CO₂ measurement range: 400 to 5000 ppm.
- Pressure measurement range: 10 to 1200 hPa.
- Accuracy CO₂: ± (40 ppm + 5%).
- Accuracy pressure (@ 25 °C, 750 hPa): ±1.5 hPa.
- Supply voltage range: 4.5–26 VDC.
- Current consumption: 25 mA @ 5 VDC (Peak: 150 mA @ 5VDC).
- Ingress protection: IP20.
- Connectors: screwless terminal block.

Applications

- CO₂-based demand-controlled ventilation in office buildings.
- Indoor air quality monitoring in conference rooms.
- Pressure trend tracking in laboratories and controlled environments.

www.teracomsystems.com/sensors/modbus-co2-and-pressure-sensor-tsm400-4-cp

TSM400-1-CP CO₂ and pressure sensor

Overview

The TSM400-1-CP is a compact sensor designed to monitor carbon dioxide (CO₂) levels and barometric pressure in indoor environments. It operates over the 1-Wire digital interface, providing reliable data for applications that require efficient, low-complexity connectivity.

The sensor employs non-dispersive infrared (NDIR) technology for CO₂ measurement, with automatic background calibration to ensure consistent long-term performance. The barometric pressure sensor is factory-calibrated and designed for maintenance-free operation.

Its enclosure supports flush mounting in standard wall boxes (68 mm), blending easily into office and public interior spaces.



Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 5 to 95 %RH (non-condensing).
- CO₂ measurement range: 400 to 5000 ppm.
- Pressure measurement range: 10 to 1200 hPa.
- Accuracy CO₂: ± (40 ppm + 5%).
- Accuracy pressure (@ 25 °C, 750 hPa): ±1.5 hPa.
- Supply voltage range: 4.5–26 VDC.
- Current consumption: 25 mA @ 5 VDC (Peak: 150 mA @ 5VDC).
- Ingress protection: IP20.
- Connectors: screwless terminal block.

Applications

- CO₂ level monitoring in smart ventilation systems.
- Indoor pressure reference in environmental monitoring setups.
- Air quality supervision in classrooms, offices, and meeting spaces.

www.teracomsystems.com/sensors/1-wire-carbon-dioxide-sensor-tsm400-1-cp



TSP200 Barometric pressure sensor

Overview

The TSP200 is a digital barometric pressure sensor that communicates via the 1-Wire interface. It uses a piezo-resistive MEMS sensing element combined with an integrated ASIC for precise analog-to-digital conversion and temperature compensation. This architecture ensures accurate, linear, and stable pressure readings over time.

The sensor offers high resolution and low power consumption, making it suitable for continuous environmental monitoring in energy-sensitive applications. Its compact enclosure with IP30 protection is designed for indoor use.

The TSP200 includes dual RJ12 connectors, allowing easy daisy-chain installation in multi-sensor systems.

Key Specifications

- Operating temperature range: -20 to 70 °C / -4 to +158 °F.
- Operating humidity range: 0 to 85 %RH (non-condensing).
- Pressure measurement range: 300 to 1100 hPa.
- Accuracy (@ 25 °C, 950 to 1050 hPa): ±1 hPa.
- Ingress protection: IP20.
- Supply voltage range: 4.0–5.5 VDC.
- Current consumption: 2 mA @ 5VDC.
- Connectors: two RJ12 ports.
- Dimensions: 85 x 35.1 x 23.5 mm.
- Warranty: 3 years.

Applications

- Atmospheric pressure monitoring in greenhouses and nurseries.
- Barometric reference in laboratory and calibration environments.

www.teracomsystems.com/sensors/1-wire-barometric-pressure-sensor-tsp200



1-Wire

Pressure

TSL200 Ambient light sensor

Overview

The TSL200 is a digital ambient light sensor with 1-Wire communication, designed for indoor applications requiring accurate illumination monitoring. It measures visible light levels up to 83,000 lux with a spectral response closely matching that of the human eye. The sensor features strong infrared rejection and automatic range adjustment, enabling high accuracy under both low and high light conditions.

The compact enclosure provides IP30 protection, making the device suitable for installation in protected indoor spaces. Dual RJ12 connectors allow easy integration into 1-Wire networks using standard cabling. Each unit has a unique 64-bit serial number for multi-device compatibility.

Key Specifications

- Operating temperature range: 0 to 40°C / 32 to +104°F.
- Operating humidity range: 5 to 95% (non-condensing).
- Illuminance measurement range: 0 to 83000 lux.
- Accuracy: ±5%.
- Optical field of view: ±45°.
- Supply voltage range: 4.5–5.5 VDC.
- Current consumption: 4 mA @ 5 VDC.
- Connectors: two RJ12 ports.
- Dimensions: 85 x 35.1 x 23.5 mm.
- Ingress protection: IP20.

Applications

- Ambient light monitoring for lighting control systems.
- Smart office automation.
- Indoor brightness tracking for energy efficiency.
- Integration into Building Management Systems (BMS).

www.teracomsystems.com/sensors/1-wire-ambient-light-sensor-tsl200



1-Wire

Ambient light



TDI340 S0 pulse counter

Overview

The TDI340 is a pulse counter designed for monitoring consumption from electricity, water, gas, and heat meters with S0 outputs. It offers four independent channels, each supporting high-resolution counting with configurable edge detection and input filtering for reliable operation in various environments.

All values are stored in non-volatile memory, ensuring no data is lost in case of power failure. In addition to raw pulse counts, the device allows calculation of physical values such as energy or volume, which can be read directly through the system.

Its compact design and reliable signal processing make the TDI340 suitable for integration into metering panels, automation systems, and building energy management applications.

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Digital inputs modes: ON/OFF and COUNTER (S0 compatible).
- Digital inputs isolation: Functional, 1000 VDC;.
- Maximum counter value: 4 294 967 295.
- Supply voltage range: 5.0–30 VDC.
- Current consumption: 50 mA @ 5 VDC.
- Connectors: screwless pluggable for 28 to 16 (AWG).
- Ingress protection: IP40 (connections IP20).
- Warranty: 3 years.

Applications

- Utility metering for electricity, water, gas, and heat.
- Energy monitoring in industrial and commercial buildings.
- Pulse data acquisition in automation and control systems.
- Integration into Energy Management Systems (EMS).

www.teracomsystems.com/sensors/s0-pulse-counter-modbus-rtu-tdi340



MODBUS
RTU

Pulse
counter

TD0340 Relay output module

Overview

The TD0340 is a four-channel relay output module suitable for remote control of electrical loads in automation and monitoring systems. It allows flexible configuration of each output, enabling integration with lighting, ventilation, security, or general-purpose switching.

Relay states are stored in non-volatile memory to ensure recovery after power interruptions. Status feedback is available for all channels, supporting real-time supervision and diagnostics within the control system.

Compact and robust, the module is designed for reliable operation in distributed installations. It offers straightforward integration into energy, industrial, and building automation environments.

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Relay max. switching current: 3 A.
- Relay max. switching voltage: 250 VAC / 30 VDC.
- Isolation: 4000 Vrms coil to contact.
- Supply voltage range: 5.0–28 VDC.
- Current consumption: 130 mA @ 5 VDC.
- Connectors: screwless pluggable.
- Ingress protection: IP40 (connections IP20).
- Warranty: 3 years.

Applications

- Remote switching of lighting, HVAC, and power circuits.
- Control of auxiliary equipment in industrial systems.
- Automated load management in energy-efficient buildings.
- Integration with Building Management Systems (BMS).

www.teracomsystems.com/sensors/modbus-rtu-relay-output-module-tdo340



MODBUS
RTU

Relay
output



TSA200 Galvanic isolated current loop transmitter

Overview

The TSA200 is a single-channel analog input module for reading 4–20 mA current loop signals from industrial transmitters. It features galvanic isolation between the input and the communication interface, ensuring safe operation and improved noise immunity in demanding environments.

Designed for compatibility with a wide range of sensors, the module is suitable for monitoring process variables such as temperature, pressure, and flow. Internal calibration ensures consistent signal conversion without the need for external adjustments.

Compact and easy to integrate, the TSA200 is ideal for connecting analog measurement devices to 1-Wire monitoring systems in industrial and building automation.

Key Specifications

- Operating temperature range: 0 to 40 °C / 32 to +104 °F.
- Operating humidity range: 0 to 85 %RH (non-condensing).
- Input DC current range: 0 to 20 mA.
- Accuracy: $\pm 2\%$.
- Isolation voltage: 1000 VDC.

- Supply voltage range: 4.5–5.5 VDC.
- Current consumption: 68 mA @ 5 VDC.
- Connectors: two RJ12 ports.
- Dimensions: 85 x 35.1 x 23.5 mm.
- Ingress protection: IP20.

Applications

- Signal acquisition from 4–20 mA industrial transmitters.
- Electrically isolated analog input in control systems.

- Process monitoring in automation and energy management.
- Integration of current loop devices into 1-Wire infrastructure.

www.teracomsystems.com/sensors/1-wire-current-loop-transmitter-tsa200



TSV200-60i Galvanic isolated voltage sensor

Overview

The TSV200 is a single-channel analog input module designed to measure DC voltage signals in the 0–60 V range. It features galvanic isolation between the input and the communication interface, ensuring safe and interference-resistant operation in industrial environments.

The device is suitable for reading voltage levels from external sensors, battery systems, and power supplies. Built-in calibration ensures consistent performance without the need for manual adjustment during installation or operation.

Compact and easy to deploy, the TSV200 provides a reliable way to integrate voltage-based measurements into 1-Wire monitoring systems used in industrial, energy, and building automation.

Key Specifications

- Operating temperature range: 0 to 40 °C / 32 to +104 °F.
- Operating humidity range: 0 to 85 %RH (non-condensing).
- Input DC voltage range: 0 to 60 VDC.
- Accuracy: $\pm 2\%$.
- Isolation voltage: 1000 VDC.

- Supply voltage range: 4.5–5.5 VDC.
- Current consumption: 68 mA @ 5 VDC.
- Connectors: two RJ12 ports.
- Dimensions: 85 x 35.1 x 23.5 mm.
- Ingress protection: IP20.

Applications

- Voltage monitoring in battery systems and power supplies.
- Electrically isolated analog input for industrial monitoring.

- DC voltage signal acquisition in control and automation.
- Integration of voltage-based sensors into 1-Wire systems.

www.teracomsystems.com/sensors/1-wire-voltage-sensor-tsv200





TSA202 Analog input module with galvanic isolation

Overview

The TSA202 is a dual-channel analog input module with galvanic isolation, designed for high-precision signal measurement in automation and monitoring systems. Each channel supports two selectable input modes: 0–10 V and 0–20 mA, allowing flexible connection to a wide range of analog sensors.

Equipped with a 16-bit ADC, the module delivers excellent resolution and measurement stability. Factory calibration ensures long-term accuracy without the need for manual adjustments in the field.

Thanks to its dual-mode input capability, galvanic isolation, and reliable signal processing, the TSA202 is ideal for precise analog data acquisition in industrial, energy, and building management applications.

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Current loop mode range: 0-20 mA.
- Voltage mode range: 0-10 VDC.
- Accuracy: $\pm 1\%$, 16-bit ADC conversion.

- Supply voltage range: 4.5–5.5 VDC.
- Current consumption: 25 mA @ 5 VDC.
- Connectors: screwless pluggable.
- Functional isolation: 1000 VDC.
- Ingress protection: IP20.

Applications

- Precise measurement of pressure, flow, or temperature via analog transducers.

- High-resolution analog input in industrial process monitoring.
- Accurate analog signal acquisition in automation systems.

www.teracomsystems.com/sensors/1-wire-analog-input-module-tsa202



1-Wire

Voltage

Current loop

TSA202-60 60V analog input module with galvanic isolation

Overview

The TSA202-60 is a dual-channel analog input module with galvanic isolation, designed for precise monitoring of DC voltage signals up to 60 V. Both channels operate in 0–60 V input mode, making the device suitable for applications requiring direct connection to high-voltage analog sources.

A 16-bit analog-to-digital converter ensures excellent resolution and accuracy across the full voltage range. The factory-calibrated design provides long-term measurement stability without the need for external adjustments.

With robust isolation and reliable high-voltage handling, the TSA202-60 is ideal for safe and accurate analog data acquisition in industrial monitoring, power systems, and automation networks.

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Input voltage range: 0-60 VDC.
- Accuracy: $\pm 1\%$, 16-bit ADC conversion.
- Functional isolation: 1000 VDC.

- Supply voltage range: 4.5–5.5 VDC.
- Current consumption: 25 mA @ 5 VDC.
- Connectors: screwless pluggable.
- Ingress protection: IP20.
- Warranty: 3 years.

Applications

- Precise voltage monitoring in DC power systems.
- Safe integration of 0–60 V signals in measurement networks.

- High-voltage analog signal acquisition in industrial environments.

www.teracomsystems.com/sensors/1-wire-60v-input-module-tsa202-60



1-Wire

Voltage



TSC201 10A current sensor

Overview

The TSC201 is a compact current sensor for AC and DC applications, designed to measure currents up to 10 A. It is intended for use with external current transformers that provide a 10 A secondary output, allowing indirect measurement of much higher primary currents.

A built-in 16-bit ADC delivers high-resolution readings, while galvanic isolation between the input and communication interface ensures electrical safety and reliable performance in noisy environments. The device is factory calibrated, requiring no user adjustment and simplifying installation.

Housed in a DIN rail-mountable enclosure, the TSC201 is suitable for integration into electrical panels, making it a practical choice for current monitoring in industrial, energy, and automation systems.

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90 %RH (non-condensing).
- Input AC current range: 0.1-10 A.
- Input DC current range: $\pm$ (0.1-10) A.
- Accuracy: $\pm$ 1%, 16-bit ADC conversion.

- Supply voltage range: 4–5.5 VDC.
- Current consumption: 30 mA @ 5 VDC.
- Connectors: screwless pluggable.
- Maximum working voltage for basic isolation: 277 VAC.
- Ingress protection: IP40 (connectors IP20).

Applications

- Load monitoring in energy management systems.
- Indirect current measurement with external CTs.
- AC/DC diagnostics in control and automation setups.
- Electrical load profiling in distribution panels.

www.teracomsystems.com/sensors/1-wire-isolated-current-sensor-tsc201



1-Wire

Current

TSV300 AC voltage transducer

Overview

The TSV300 is a high-accuracy AC and DC voltage transducer designed for true RMS measurement and versatile system integration. It supports both 50 Hz and 60 Hz networks, as well as DC voltages, covering a wide range of monitoring scenarios across industrial and utility applications.

Equipped with a 24-bit converter, the transducer achieves excellent resolution and accuracy better than 0.5%. Its robust 1500 Vrms isolation ensures safe operation even in demanding environments, while high input impedance minimizes signal interference during measurements.

With support for MODBUS RTU communication, the TSV300 delivers readings in both 16-bit integer and 32-bit floating-point formats.

Key Specifications

- Operating temperature range: -20 to 60 °C / -4 to +140 °F.
- Operating humidity range: 10 to 90% (non-condensing).
- Input voltage range: 0-264 VAC or $\pm$ (0-370) VDC.
- Input frequency: 0 to 60 Hz.
- Accuracy: $\pm$ 0.5 %, 24-bit ADC conversion.

- Supply voltage range: 5–28 VDC.
- Current consumption: 15 mA @ 12 VDC.
- Connectors: screwless pluggable.
- Maximum working isolation voltage: 1500 Vrms.
- Ingress protection: IP40 (connectors IP20).

Applications

- True RMS voltage monitoring in industrial and utility networks.
- AC and DC measurement in energy diagnostics and control.
- Electrical safety monitoring in high-voltage equipment.
- Grid voltage tracking for automation and SCADA systems.

www.teracomsystems.com/sensors/ac-voltage-transducer-modbus-rtu-tsv300



MODBUS
RTU

Voltage



TSV101 AC voltage detector

Overview

The TSV101 is a high-reliability AC voltage detector with optoisolated open collector output, designed to indicate the presence or absence of line voltage. It supports two input ranges – 85–250 VAC and 170–250 VAC – selectable via external wiring.

Constructed entirely from electronic components, the device avoids mechanical wear and ensures long-term durability. Galvanic isolation between the monitored AC line and the digital output enhances operational safety, while the self-powered design simplifies installation by eliminating the need for an external power supply.

DIN rail mounting and open collector output compatibility make the TSV101 easy to integrate into monitoring and automation systems.

Key Specifications

- Operating temperature range: 0 to 40 °C / 32 to +104 °F.
- Operating humidity range: 0 to 85 %RH (non-condensing).
- Operating voltage range: 0 to 250 VAC.
- Detection levels: 85 VAC or 170 VAC.

- AC voltage connectors: screwless pluggable.
- Output connector: screw terminal.
- Ingress protection: IP40 (connectors IP20).
- Dimensions: 85 x 35.1 x 23.5 mm.
- Warranty: 3 years.

Applications

- Line voltage detection in UPS and backup power systems.
- Monitoring power supply presence in control panels.

- Voltage presence feedback in automated switching systems.
- Safe AC voltage sensing in industrial monitoring setups.

www.teracomsystems.com/sensors/ac-voltage-detector-tsv101



TSD800 Magnetic door sensor

Overview

The TSD800 is a magnetic contact sensor designed for monitoring the open or closed status of doors and windows. Its rugged construction and screw-mount design ensure reliable operation on both metal and wooden surfaces in residential, commercial, and industrial settings.

The sensor features a relay output compatible with digital inputs in dry contact mode. Its wide sensing gap and IP65-rated enclosure provide reliable performance in harsh or dusty environments.

TSD800 is ideal for use in access monitoring, security systems, and HVAC-related automation, offering a simple yet effective solution for detecting door or window status.

Key Specifications

- Max switching voltage: 30 VDC.
- Max switching current: 0.2 A.
- Ingress protection: IP65.

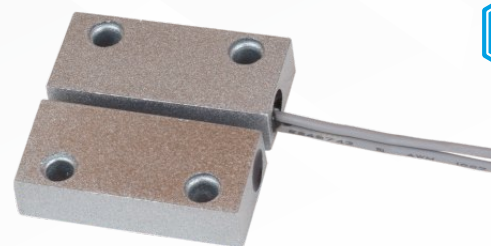
- Housing: Zink alloy.
- Contact: Closed when both parts are close to each other.

Applications

- Monitoring of cabinet or enclosure doors in industrial systems.
- Open-door detection for HVAC interlock control.

- Status monitoring of electrical panels in automation setups.
- Equipment access tracking in server rooms or technical areas.

www.teracomsystems.com/sensors/magnetic-door-sensor-tds800





TSF400-0 Water leak detector

Overview

The TSF400-0 is a waterproof water-leak detector designed for early detection of unwanted water presence in technical and industrial environments.

It is suitable for installation on floors, in drainage trays, or inside equipment enclosures where water ingress must be detected quickly and reliably.

The detector provides an N-channel open-drain digital output, allowing straightforward integration with PLCs, controllers, and building automation systems.

The TSF400-0 is intended for continuous operation in applications where reliable water-leak detection is required to protect equipment and infrastructure.

Key Specifications

- Operating temperature range: 0 to 50 °C / 32 to 122 °F.
- Operating humidity range: 0 to 90 %RH (non-condensing).
- Supply voltage range: 4.5–26 VDC.
- Current consumption: 5 mA @ 12 VDC.
- Ingress protection: IP65.
- Output type: N-channel open-drain, active-LOW.
- Maximum output rating: 30VDC / 100mA.
- Cable length: 3 meter.
- Dimensions: 88 x 17 x 46 mm.
- Warranty: 3 years.

Applications

- Data centers, server rooms, and telecom infrastructure.
- UPS rooms and battery backup systems.
- Building Management Systems (BMS).
- Industrial control cabinets.



www.teracomsystems.com/sensors/water-leak-detector-with-digital-output-tsf400-0/

TSF400-4 Modbus water leak detector

Overview

The TSF400-4 is a waterproof water-leak detector with Modbus RTU communication, designed for early detection of unwanted water presence in technical and industrial environments.

It is suitable for installation on floors, in drainage trays, or inside equipment enclosures where water ingress must be detected quickly and reliably.

The device allows straightforward integration with PLCs, controllers, and building automation systems for remote monitoring.

The TSF400-4 is intended for continuous operation in applications where reliable water-leak

Key Specifications

- Operating temperature range: 0 to 50 °C / 32 to 122 °F.
- Operating humidity range: 0 to 90 %RH (non-condensing).
- Supply voltage range: 4.5–26 VDC.
- Current consumption: 5 mA @ 12 VDC.
- Ingress protection: IP65.
- Cable length: 3 meter.
- Dimensions: 88 x 17 x 46 mm.
- Warranty: 3 years.

Applications

- Data centers, server rooms, and telecom infrastructure.
- UPS rooms and battery backup systems.
- Building Management Systems (BMS).
- Industrial control cabinets.



www.teracomsystems.com/sensors/modbus-water-leak-detector-tsf400-4/



TSS8030R Smoke detector

Overview

The TSS8030R is a smoke detector designed for early fire detection based on a fixed smoke concentration threshold. It uses an optical sensing principle, where smoke particles entering the chamber cause infrared light scattering, reliably triggering the detection process.

A built-in microprocessor applies an advanced algorithm for self-compensation, maintaining long-term stability even in dusty environments. The sensor is factory calibrated and features a relay output, suitable for use with digital inputs in dry contact mode.

With its compact housing and low power consumption, the TSS8030R is ideal for installation in equipment rooms, technical enclosures, and industrial facilities.



Key Specifications

- Operating temperature range: -10 to 55 °C / 14 to +131 °F.
- Operating humidity range: 30 to 96 %RH (non-condensing).
- Smoke sensitivity: complies with EN 54-7:2000+ A1:2002.
- Protected area: circle with diameter 15 m.
- Supply voltage range: 10–30 VDC.
- Current consumption: 18 mA @ 10 VDC.
- Connectors: screw terminals.
- Warranty: 3 years.

Applications

- Fire detection in server and network equipment rooms.
- Smoke monitoring in industrial automation enclosures.
- Early warning in electrical distribution cabinets.
- Smoke detection in controlled industrial spaces.

www.teracomsystems.com/sensors/smoke-detector-tss8030r