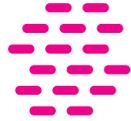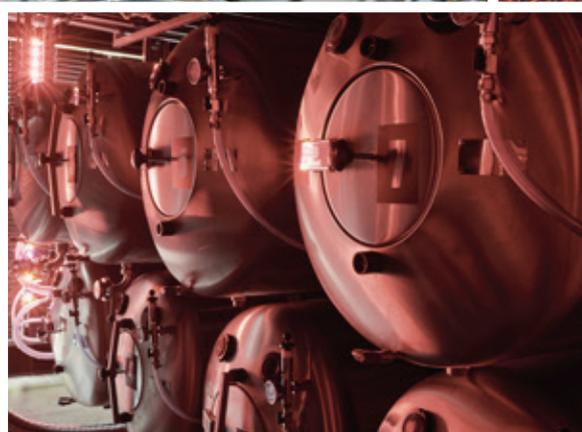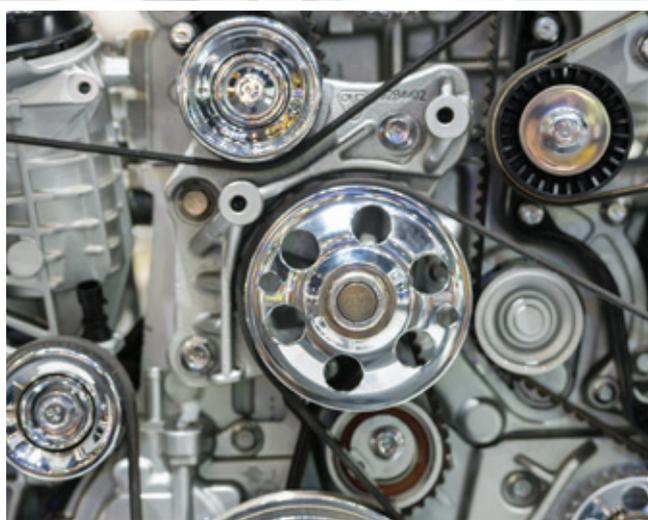temperature   humidity CO_2 level   flow   position

Product overview

05/23

SENSIT

extend your senses

HEAD TEMPERATURE SENSORS

- Type of sensing element:

  Resistance – Pt 100/3850, Pt 500/3850, Pt 1000/3850, Ni 1000/5000, Ni 1000/6180, Ni 10000/5000, Ni 10000/6180, Ni 2226 = T1, Ni 891, NTC, PTC

  Thermocouple – TCK, TCJ, TCT; Others – KTY, SMT 160, DALLAS, TSic etc.

- Maximum measuring range: -200 °C to 600 °C
  (custom manufactured sensors above the stated parameters)

- Ingress protection: up to IP 68 (according the sensor type)

- Output signal: resistance, current, voltage and digital

- Stem length: standardly 70 to 240 mm, custom manufactured from
  40 mm to ..."according to customer´s requirement"

- Stem material: stainless steel DIN 1.4301, DIN 1.4571, DIN 1.4404
  and others "according to customer´s requirement"

- Accessories: thermowells, welded-on pieces, reductions, brackets, flanges, clamps, connectors

IoT application ready

↓ CONTACT (series S 140, S 150, S 190)

DIGI output

↓ INTERIOR USE (series S 100)   DIGI output

↓ OUTDOOR USE (series S 110, K 110)

DIGI output

↓ IMMERSION (Ex) (series S 120, K 120, S 160, K 160, S 180, S MINI)

DIGI output

↓ HIGH TEMPERATURES IP68 (up to 600 °C)

DIGI output

↓ WITH CONNECTOR (TR 021, TR 021A, TR 021F, TR 02)

↓ WITH DISPLAY (series NSD)

TEMPERATURE PROBES IP68

- Design: contact, stick in, ambient temperature probe ■ up to 6 measuring points
- Maximum measuring range: -50 °C to 300 °C ■ Type of sensing element: Resistance: Pt 100/3850, Pt 500/3850, Pt 1000/3850, Ni 1000/5000, Ni 1000/6180, Ni 10000/5000, Ni 10000/6180, Ni 2226 = T1, NTC, Ni 891; Thermocouple: TCK, TCJ, TCT ■ Ingress protection: up to IP 68 (according to probe type)
- Case material: stainless steel DIN 1.4301 ■ Case diameter: from 1.5 mm... "accodring to customer´s requirement"
- Handle material: silicone, teflon, polypropylene, LCP, PEEK ■ Cables: silicone, teflon , PVC

CABLE TEMPERATURE SENSORS

- Type of sensing element:
  Resistance - Pt 100/3850, Pt 500/3850, Pt 1000/3850, Ni 1000/5000, Ni 1000/6180, Ni 10000/5000, Ni 10000/6180, Ni 2226 = T1, Ni 891, NTC, PTC
  Thermocouple - TCK, TCJ, TCT; Others - KTY, SMT 160, DALLAS, TSic etc.
- Maximum measuring range: -200 °C to 450 °C (custom manufactured sensors above the stated parameters) ■ Connection: 2wire, 3wire, 4wire
- Ingress protection: up to IP 68 (according the sensor type) ■ Case diameter: from 1,5 mm ..."according to customer´s requirement"
- Threads: standardly G 1/2", G 1/4", M 10 x 1, M 10 x 1,5 and others based on application ■ Cables: PVC, silicone, Teflon, fibreglass insulation and others
- Case material: stainless steel DIN 1.4301, DIN 1.4571, DIN 1.4404, brass, dural and etc. ..."according to customer´s requirement"

↓ **SMOOTH CASE** ⟨Ex⟩ IP68   ↓ **THREAD** ⟨Ex⟩   ↓ **CONTACT** ⟨Ex⟩

DIGI output   DIGI output   DIGI output

↓ **BAYONETS**   ↓ **PLASTIC CASE**   ↓ **CRYOGENIC TEMPERATURE** ❄

↓ **RIGHT-ANGLE**   ↓ **ELECTROMOTOR WINDING**

MINERAL INSULATED RESISTANCE TEMPERATURE SENSORS – MGO

- Temperature range up to 600 °C ■ Case diameter from 1 mm ■ Type of sensing element: Pt 100, Pt 500 or Pt 1000 ■ Shapeable

↓ **MINERAL INSULATED**   ↓ **WITH CONNECTOR**   ↓ **WITH CONNECTION HEAD**

THERMOCOUPLE TEMPERATURE SENSORS

- Temperature range up to 1 200 °C ■ Case diameter from 1 mm ■ Types: TCK, TCJ, TCT, TCS etc. ■ Shapeable

↓ MINERAL INSULATED   ↓ WITH BAYONET   ↓ WITH CONNECTOR   ↓ WITH CONNECTION HEAD

PAIRED TEMPERATURE SENSORS

- Type of sensing element: Pt 100/3850, Pt 500/3850, Pt 1000/3850 ■ Compliance with standards: EN 60751, EN 1434; MID Certification ■ Maximum temperature range: 0 °C to 180 °C
- Compatibility with measuring instruments of the following companies: SIEMENS, LADIS+GYR, KAMPSTRUP, ITRON, COMAC CAL, CODEA, SENSUS METERING and others
- Design variability: mounting into thermowell, direct immersion into the piping

BIMETALLIC TEMPERATURE SENSORS AND SWITCHES

Sensors

- Max. measuring range: -30 °C to 200 °C ■ Measuring system: bimetallic ■ Design: into thermowell, contact

Switches

- Switch off / Switch on temperature from 70 to 180 °C ■ Design: with a smooth stem, with a thread ■ Contact design: normally open / normally closed

TEMPERATURE SWITCHES

- Design: on a DIN bar, on a console, for interiors and exteriors, for ducts, with an external probe, with or without a display, with an adjustable temperature/with a fixed temperature
- Input: Pt 100/3850, Pt 1000/3850, Ni 1000/6180, TCK ■ Output: relay, RS 485
- Maximum measuring range: -50 °C to 400 °C ■ Hysteresis: adjustable
- Power supply: 12/24 V or 230 V/50 Hz (according to the sensor type)

DIGI output

CUSTOM MADE

Complete service includes

- Thorough analysis of the application ■ Production and delivery of samples
- Technical support and consulting design of sensor which you need, personal approach
- Price quotation is calculated on the base of required quantity
- Production of sensors including control of every sensor, for every piece
- Delivery date between 7 to 21 days ■ Express production and delivery within possibilities of technological process

CONVERTERS

Temperature – Current / Temp. – Voltage / Temp. – RS 485 / Temp. – CAN protocol

- Output: 4 to 20 mA, 0 to 10 V, RS 485, CAN protocol ■ Power supply: 11 to 30 V_{DC} (according type)
- Standard measuring range: -30 °C to 60 °C, 0 °C to 35 °C, 0 °C to 100 °C, 0 °C to 150 °C, 0 °C to 200 °C, 0 °C to 400 °C; possibility of custom setting of the measuring range
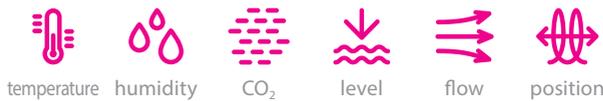- Design: on a DIN bar, wall-mounted version

TEMPERATURE AND RELATIVE HUMIDITY SENSORS

- Design: for interiors and exteriors, air-conditioning ducts, with an external probe
- Output: two galvanic separated signals 4 to 20 mA, 0 to 10 V, RS 485, CAN protocol, I2C
- Measuring range of relative humidity: 0 to 100 % RH ■ Maximum measuring temperature range: -30 °C to 125 °C according to the sensor type ■ "S" head design is in compliance with the temperature sensor, designed without mobile parts, high sensitivity ■ Option with display

COMBINED TEMPERATURE, RELATIVE HUMIDITY AND CO_2 SENSORS

temperature humidity CO_2 level flow position

- Measured variables: temperature, relative humidity, CO_2, atmospheric pressure and VOC
- Possible to choose a sensor version with various combinations of measured quantities (combination of two to five measured quantities) by selecting specific sensors
- Outputs: 4 to 20 mA, 0 to 10 V, RS 485, CAN protocol, LED identification
- Design: for interiors and exteriors, air-conditioning ducts, with an external probe

WIRELESS RADIO SENSORS

temperature humidity CO_2

- Temperature, relative humidity and CO_2 sensors
- Sensor protection up to IP 65 depending on the sensor type
- Communication is transmitted using the unlicensed 868 MHz band
- Integration into various SCADA systems using the Modbus RTU protocol (RS485)

FLOW SENSORS AND FLOW SWITCHES OF LIQUIDS

- Liquid output: 4 to 20 mA, normally open contact
- Reccomended measuring range: 2 to 5 m/s, 2 to 10 m/s, 2 to 20 m/s
- Design: for explosive enviroments

FLOOD DETECTORS

- Design: wall-mounted version or for horizontal surface, with external probe
- Output: the relay output or the output terminal of an open colector type ■ „S" head design

INDUCTIVE SWITCHES AND OPTICAL SENSORS

↓ INDUCTIVE PROXIMITY SWITCHES

Application:
- Rotation control ■ Press work pressence
- Revolutions ■ Chain sag ■ Linear motion
- Products on a conveyor ■ Apperture
- Switch position ■ Material thickness
- Pressure ■ Door position ■ Rotary motion
- Object presence ■ Turbine revolutions
- Liquid level etc.

↓ OPTICAL LEVEL SENSORS

Suitable for:
- Food Processing Industry
  (dairies, production of alcoholic
  and non-alcoholic beverages, breweries)
- Chemical and Petrochemical industry
- Medical and Pharmaceutical industry

ACCESSORIES

- Thermowells, welded-on pieces, reducers, movable fittings,
  holders,coonectors, bayonet adapters, thermal conductive paste...

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SENSIT

CQS ISO 9001 CQS ISO 14001 CQS ISO 45001 IQNET RECOGNIZED CERTIFICATION

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