Explore your ideal sensor solution with our experts

Tailored sensor components for process control: humidity in ultra-dry air/gas in industrial or medical compressors and dryers, under condensation conditions in meteorological and emission monitoring analyzers, or to evaluate moisture in oil in high-performance transformers.

Custom calibration

iST humidity modules come with a full range humidity and temperature calibration and an accuracy of ± 1.8 % RH at 23 °C. If higher accuracies are needed, iST humidity modules can be custom calibrated with accuracies down to ± 0.5 % RH



The modular design of iST humidity sensors and RH/T modules allows for high flexibility, whenever a new sensor specification is required. Customized humidity modules feature extraordinary response times, high accuracies in a condensing environment or low humidity conditions.

Various form factors

Factory calibrated RH/T modules with digital I²C interface are available in various form factors - from small planar designs to stainless-steel casings optimized for compact process integration. Variable filter options and optional heating structures for in process reconditioning allow for long-term stability in your application. Match our module types with a suitable humidity sensing element to meet your required performance.

Custom assembly

Our ready-to-use, factory calibrated humidity probes come with robust and easy to integrate screw-in stainless steel housings. Customized housings and packaging options with stainless-steel, or synthetic polymer materials are available to meet the requirements of your application. Contact us for support and discuss the ideal design of an OEM humidity sensor probe tailored to your application.



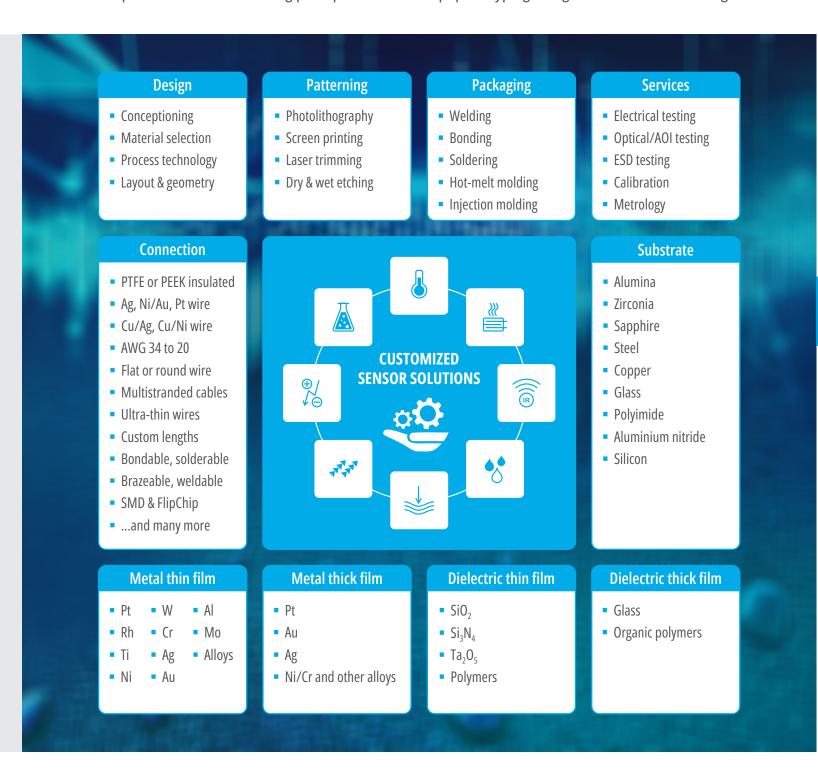




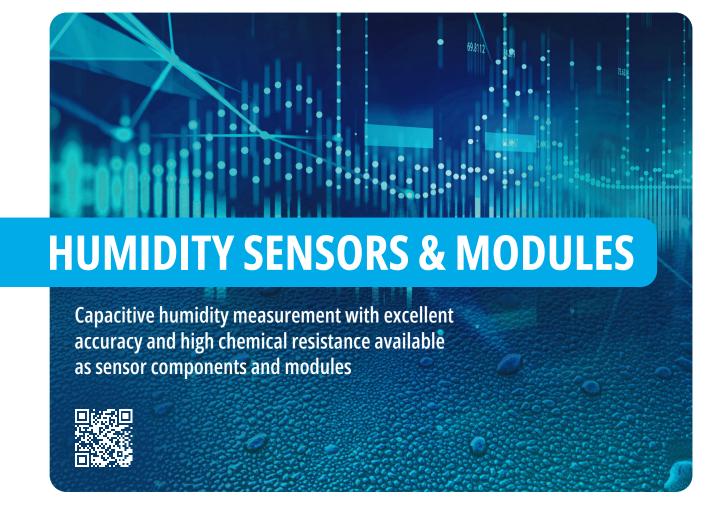


Customized sensor solutions for your application

Benefit from an agile co-creation of your next sensor solution. Use our competence at component level and focus on your added value for fast and successful product development - from simple design adaptations to new measuring principles: from concept prototyping to high-volume manufacturing.



































SUSTAINABLE ENERGY

Humidity sensors

Unique choice of linearity ranges, baseline capacity and temperature ranges. Compatibility with different media including ambient air, technical gases, hydrogen, insulation gas and oils.

Condensation-resistance

- Excellent linearity
- Low hysteresis
- Fast response time





Product code 104932

For low humidity applications

P14 Rapid-2

For meteorology

For high-end analytical

applications

applications







Suitable for extreme environments and dew point measurement

For indoor & outdoor applications

Product code 150466





Product code 103590

MK33-W mini For measurement in



For dew-point need to re-heat

oil and extreme

environment

P14 2FW Thermo applications with

HYT humidity modules

Our digital HYT humidity modules offer a wide application window and an optimal price-performance ratio.

- Variable capacitive sensor component
- Pre-calibrated with custom accuracy range option
- Long-term stable under condensating conditions
- Assembly options upon request





For heating, ventilation and air conditioning



or fast measurements

HYT939P

Optimal humidity and temperature sensor component for industrial drying applications. The factory calibrated RH/T module comes in TO39 housing with glass-sealed pins.

- Optional membrane filter for particle and VOC protection
- Temperature range from -40 °C ... +125 °C
- Accuracy ±1.8 % RH at +23 °C (0 % to 90 % RH), ±0.2 °C (0 to 60 °C)

Humidity module for meteorological applications

RH/T module with I²C outputs for fast measurement at high altitudes.

Designed for meteorological applications with extra fast Rapid-2 humidity sensor

component and miniaturized Pt1000 for temperature. Factory-calibrated, exchangeable

Digital outputs I²C















Humidity module with integrated heater

Suitable for drones and weather balloons

For breathing gas analysis in medical devices

Pre-calibrated and temperature compensated RH signal

Designed for in-process reconditioning. Allows for fast and targeted heating of the humidity component for degassing.

- Factory calibrated humidity and temperature module with I²C outputs
- Integrated ceramic micro heater

Excellent RH/T reproducibility

Fast response

- Temperature range from -20 °C up to +120 °
- Suitable for monitoring processes with high humidity or chemicals requiring degassing to avoid drift

Evaluation kit

Test board with most common RH/T module types HYT939P and HYT271. Unwrap and start to measure!





Product code 151331

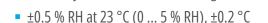


Standard or customized

Low humidity probe for dew point monitoring

Ready-to-use, factory calibrated humidity probe with digital I²C outputs. Designed for process control based on dewpoint monitoring down to 40 °C Tdp.







Humidity module – Moisture in oil sensor

Ideal for the continuous monitoring of industrial moisture in oils. Factory calibrated digital humidity and temperature module with a digital I²C interface.

- Ready-to-use assembled RH/T module
- Pre-calibrated for relative water saturation level and temperature
- Screw-in stainless steel housing
- Interchangeable without adjustments
- Temperature range from 0 ... 100 %RH



HYT analog transmitter

Connector to allow module replacement without re-calibration and is compatible with HYT 271 and HYT 221 modules.

- Two analog outputs for relative humidity and temperature
- Temperature range from -40 °C up to +60 °C
- Choice of 4 20 mA or voltage outputs





