

CUSTOMIZED SENSOR SOLUTIONS FOR YOUR APPLICATION

Benefit from an agile co-creation of a sensor with IST AG and enable your business to focus on your core competence: From simple adaptations of our sensors to fit your application's needs to new development of a tailor-made sensor – from early prototyping to series manufacturing.



IST Innovative Sensor Technology
physical. chemical. biological.



HEATING, VENTILATION & AIR CONDITIONING

Sensor solutions for smart HVAC systems and leakage detection





SENSORS FOR HVAC SYSTEMS

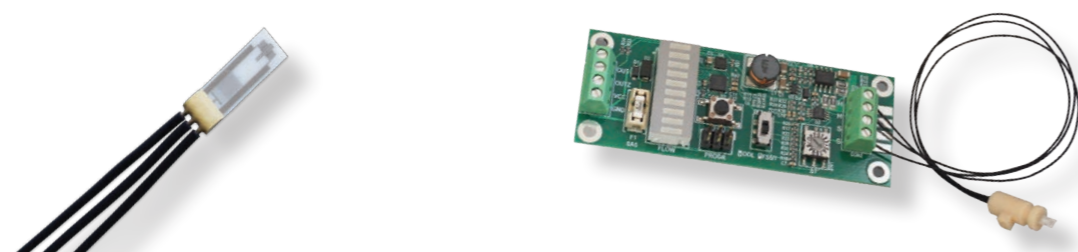
Take advantage of our know-how to integrate temperature, humidity and flow sensors to build more sustainable and smart HVAC systems.



Flow Switch in Ventilation Vent or Valve

In modern designs, HVAC systems represent the primary source of fresh air and therefore a minimal flow must be maintained under any circumstances.

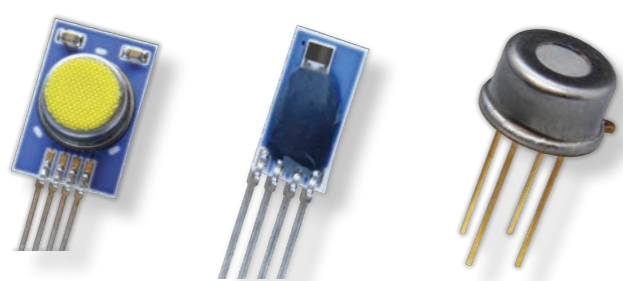
Thermal flow sensors, such as our standard F57 sensor allow for a robust and cost-effective solution to indicate if minimal flow requirements are met behind an actuator or filter. A simple to use evaluation board enables a fast identification of the optimal measuring point.



Dew Point Monitoring in Outlet Air

IST AG's HYT humidity modules are fitted with a high-precision 9-point factory calibration. A design layout with pins enables plug-and-play connector assembly as well as easy positioning of the RH/T sensor.

Optional filters directly on the HYT modules can serve as a miniature housing and protect the sensor from dust, oil droplets or VOC influence, while minimising microclimate effects some larger probe assemblies are prone to.



OOL Mass Flow Meter for Leakage Detection

Accurate, robust and ready-to-use: The compact and corrosion-resistant module is suitable for flow monitoring and leakage detection. An adjustable heating setting allows to achieve leakage level (ml/h) flow detection.

- Damage can be easily prevented
- Highly sensitive flow sensor component
- Suitable for flow monitoring and leakage detection of various liquids incl. lubrication and cooling liquids, gear and hydraulic oil, water and cleaning liquids
- Response time 500 ms



OOL Flow Modules for Leakage Detection

Badly sealed plumbing or old and rusty pipes can cause severe damage to a building. Undetected leaks from rusted pipes can gradually result in rotting walls, ceilings, or floors. The humid environment results in dangerous mildew requiring laborious and costly renovations.

- Damage can be easily prevented
- Highly sensitive flow sensor component
- Detect the smallest liquid flow quantities with an accuracy of <3% F.S. and a repeatability of <0.3 % F.S
- Response time of 500 ms

