



























MEDICAL

Flow sensors

Thermal gas flow sensor FS7

- Anemometric gas mass flow
- Temperature range -20 °C up to +150 °C
- Ceramic sensor with response time <200 ms
- Excellent sensitivity and reproducibility from low flow rates
- With optional hotmelt housing for positioning (easy customization to fit flow channel geometry)









Thermal gas flow sensor FS2

- Calorimetric gas flow sensor for mass flow and direction detection
- 4 structures on one chip for temperature compensation / extended flow range with CTA
- Ceramic sensor with response time <200 ms
- Temperature range -20 °C up to +150 °C





MicroFlowSens MFS02

- For highly sensitive calorimetric mass flow measurements at low flow rates and extended measuring range up to 150m/s in CTA mode
- Glas membrane sensor with fast response time t_{63} < 10ms
- Temperature range from -20 °C up to +80 °C
- High chemical resistance against aggressive gases and vapours









Silicon flow sensor SFS01

- Calorimetric gas mass flow sensor with very low energy consumption
- For flow range up to 3.5 m/s and temperature range up to +80 °C
- Easy to linearize raw signal
- Silicon membrane sensor with response time <5 ms





Out-Of-Liquid (OOL)

- For sensitive low flow range in liquids
- For usage in aggressive liquids with stainless steel as single wetted material
- For sensitive, anemometric mass flow measurement in ml/h to ml/min range
- Suitable as leakage detector or flow switch





iST offers a wide range of sensors based on different technologies suitable for any application.

Standard or customized

Flow modules

SFS flow module

- Ready-to-use and factory calibrated with <2% f.s. accuracy
- Available in 3 flow ranges: ±50, ±200, ±1000 sccm
- Integration ready with digital I²C and 0-1V outputs
- Add-on fluidic adapter available
- Suitable for process control in manufacturing equipment and gas analyzers for gas supply or dosing systems and manifolds



FGF – Thermal gas flow and density module

- Multiparametric module for density and pressure compensated gas mass flow
- CleanGas identification
- Binary gas ratio evaluation and flow compensation
- Suitable for medical devices and industrial process monitoring





Mass flow meter – OOL Module

- Factory calibrated liquid mass flow meter
- Calibration range 0.1...20 kg/h and accuracy of ±3 % f.s.
- For sensitive low flow / leakage analysis
- Mass flow and temperature outputs as digital I²C signal via M8 connector
- Compatible with water, oil or alcohol based media





OOL Bubble Detector

- Detection of gas bubbles in liquid with thermal principle
- Fast response time <6 ms.
- Resolution of ~1 mm sized individual bubbles
- Compatible with aggressive liquids with stainless steel as single wetted material, including coolant, ink and oils





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.

Design

- Conceptioning
- Material selection
- Process technology
- Layout & geometry

Patterning

- Photolithography
- Screen printing
- Laser trimming
- Dry & wet etching

Packaging

- Welding
- Bonding
- Soldering
- Hot-melt molding
- Injection molding

Services

- Electrical testing
- Optical/AOI testing
- ESD testing
- Calibration
- Metrology

Connection

- PTFE or PEEK insulated
- Ag, Ni/Au, Pt wire
- Cu/Ag, Cu/Ni wire
- AWG 34 to 20
- Flat or round wire
- Multistranded cables
- Ultra-thin wires
- Custom lengths
- Bondable, solderable
- Brazeable, weldable
- SMD & FlipChip
- ...and many more



Substrate

- Alumina
- Zirconia
- Sapphire
- Steel
- Copper
- Glass
- Polyimide
- Aluminium nitride
- Silicon

Metal thin film

- PtWAl
- Rh Cr Mo
- Ti Ag Alloys
- 11 Ag Allo
- Ni
 Au

Metal thick film

- Pt
- Au
- Ag
- Ni/Cr and other alloys

Dielectric thin film

- SiO₂
- Si₃N₄
- Ta₂O₅
- Polymers

Dielectric thick film

- Glass
- Organic polymers

