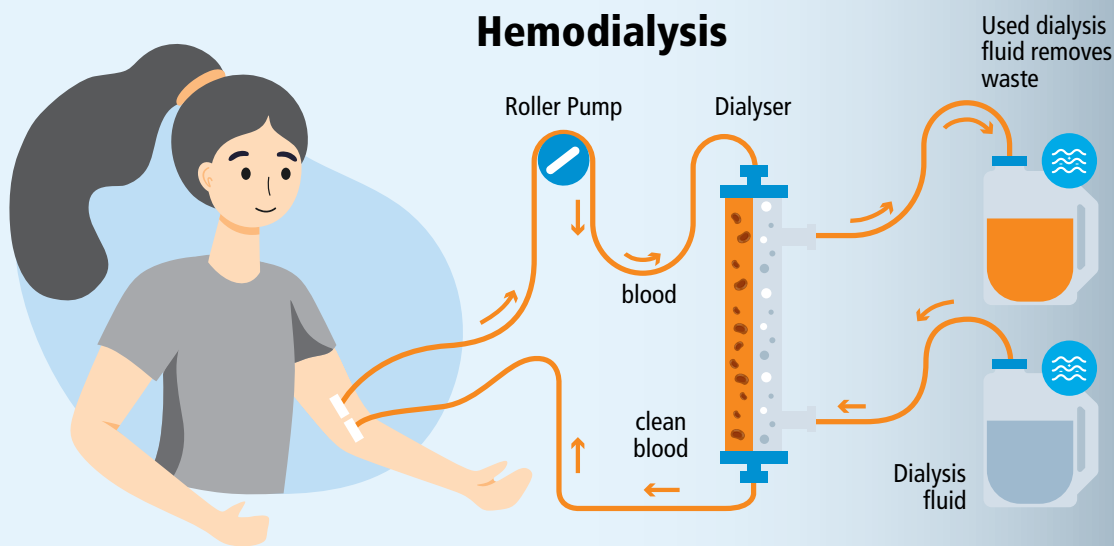


SENSORS AND MODULES FOR MEDICAL APPLICATIONS



MEDICAL APPLICATIONS

Blood Purification works as an artificial kidney or liver in the management of patients with multiple organ failure (MOF), and usually performed intermittently.

Conductivity Sensors:

- Customized electrode design
- Wide measurement range (10 nS/cm² – 200 mS/cm²)
- Chip design with high temperature stability of cell constants
- Glass and Ceramic substrates ideal for medical applications



Innovative Sensor Technology, USA Division
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www.ist-ag.com | MADE IN SWITZERLAND



MEDICAL DEVICES

Real-Time Remote Health Monitoring Systems (RHMS)

Monitoring Breath Intake Respiratory Rate (RR)

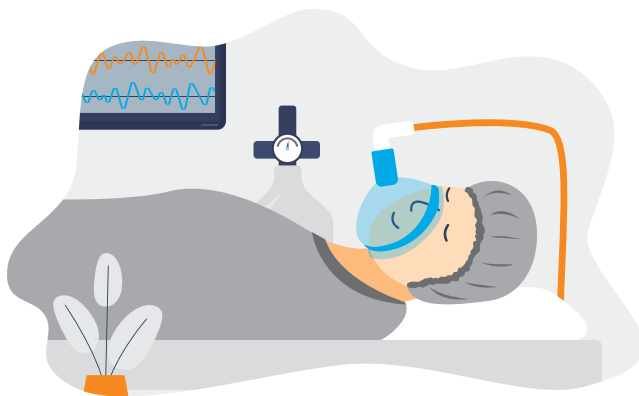
Respiratory Care Anesthesia Gas Blender

Continuous Critical Care Treatment



Medical Technology:

- Pressure monitoring in infusion (syringe) pumps
- Peristaltic pumps
- Pressure monitoring in insulin pumps
- Hardness sensors for labor detectors
- Monitoring of irrigation fluid pressure in phaco systems (eye surgery)



Metalized
backside (M)



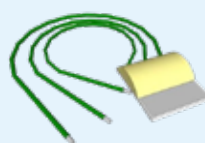
Invert welded &
bent wires (U)



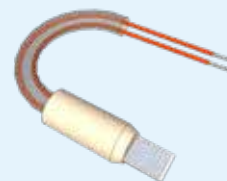
Direct welded
insulated wires



Extended 2- to 4- wires



Shrink Tube



Connectors

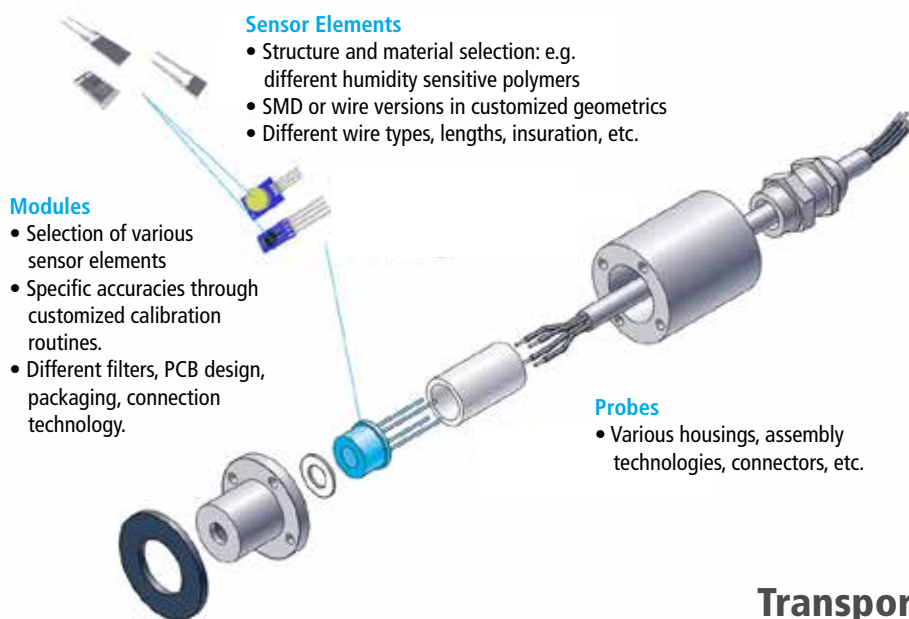


ULTRA DRY AIR APPLICATIONS & TRANSPORT OF TEMPERATURE SENSITIVE PRODUCTS



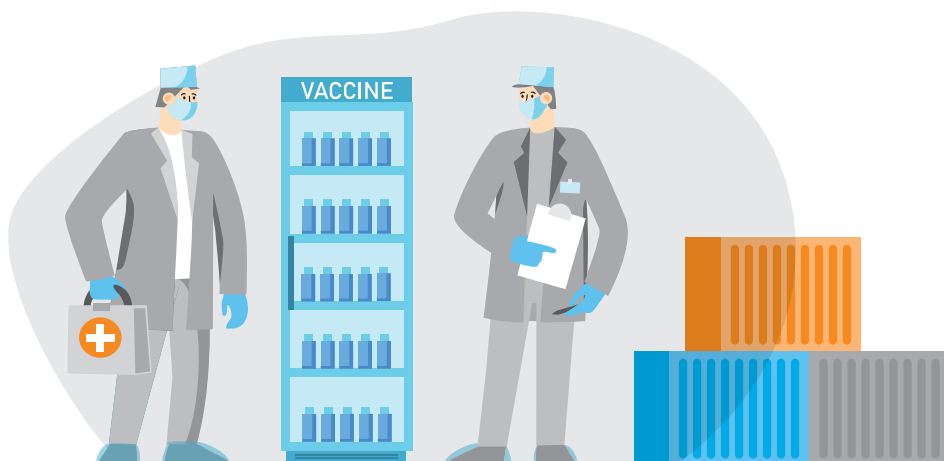
Residual humidity

Compact and fully calibrated sensor for residual humidity monitoring in compressed and ultra dry air. Easy to integrate into pressurized systems with up to 16 Bar.



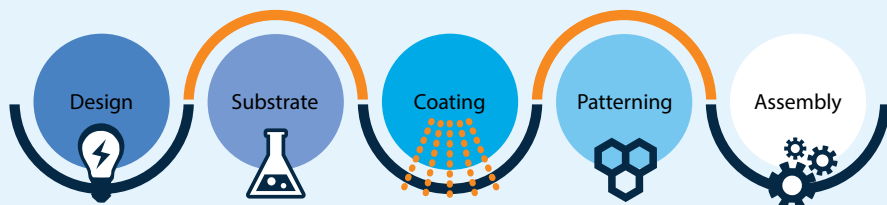
Transport of temperature sensitive products down to -200°C

Our PT100 & PT1000 thin film platinum temperature probes attached to a datalogger, are designed to meet the demands of transport temperature control with a much wider temperature range than traditional thermistor probes.



Offering customized sensors and assembled modules

For critical and demanding applications, rely on IST. We'll assemble the perfect sensor for your project.



PROVIDING SWISS TECHNOLOGY WORLDWIDE

At IST we offer a fast design-in-process and ideal sensor operation conditions for the development of your application. The choice of materials, technologies, size, form and capabilities of our sensors is extremely vast. Our experts help you find the right ingredients to build the ideal sensor to suit your application.

Temperature Sensors



- Ultra-slim Platinum Temperature sensor 0.5mm x 3.5mm—fits into ID Ø 0.8mm (0.0315")
- Resistance values at 0°C from 50 Ohm (Ω) to 10.000 Ohm (Ω)
- Class A F0.15 valid in the -200°C – +600°C range (PW Series)
- Custom wire configurations available (extended bare, insulated or directly welded wires)
- Only platinum temperature sensor in the world ESCC (EU Space Components) certified

Conductivity Sensors



- Custom electrode design
- Wide measurement range (10 μ S/cm to 200 μ S/cm)
- Chip design with high temperature stability of cell constants
- Glass and ceramic substrates ideal for medical applications

Flow Sensors



- Wide measuring range 0.01 m/s – 100 m/s (+/-1% accuracy), up to 400 °C
- Ultra fast response (< 5 ms)
- No moving mechanical parts, no contact between sensor and liquid
- Customizable modules (design-in support) with electronics

Humidity Sensors



- High humidity stability & condensation resistant due to our proprietary polymer design
- Pre-calibrated with high accuracy, < +/- 0.5% RH (in range 0% to 30% RH)
- Very fast response time 0.3 s
- Low hysteresis and long-term stability
- Coming soon modules for operating temperatures down to -80°C

Force/Torque Sensors



- Miniature sensors for force, pressure, surface strain and torque
- Manufactured with thin film technology
- Measuring ranges from approx. 0.1 bar – 0.4000 bar to 4 mm in diameter
- Temperature Range from -40 to 200°C
- Infusion pumps, labor detectors, eye surgery, insulin pumps, electric vehicles, etc

NEW

Microheater Sensors



- Precise, reliable, cost-efficient heaters, tailor-made to clients' specifications
- PTC materials and thin- and thick-film technology
- Coating techniques for fast, homogeneous, and efficient heat delivery
- Enable a small but accurate heat source with precise temperature control
- Automotive, humidification units, life-science, 3D printing and medical devices

NEW



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