



MolecuSpec[™]

See More. Know More.

Unprecedented hyperspectral data capture
with the highest spectral range

The MolecuSpec line of sensors leverages Raman spectroscopy to quickly provide highly specific information that can be used to identify and quantify multiple chemical compounds simultaneously.



Multiple Targets

Replaces multiple
sensors with one



Autonomous

User-friendly operation
and low maintenance



In-Situ

Continuous real-time
chemical information and
process visibility



Custom Data Processing

Customized algorithms to
streamline your application

MolecuSpec Family of Products

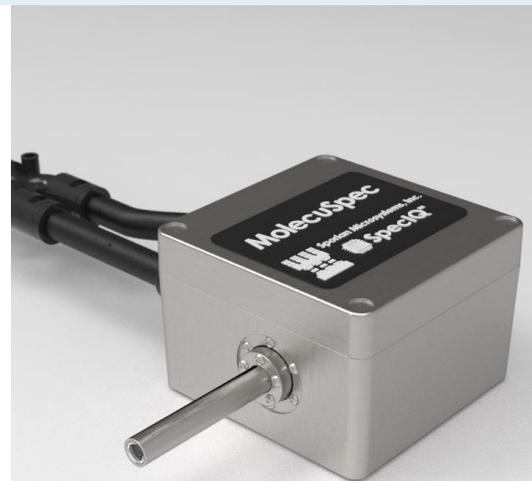
MolecuSpec[™]

The standard temperature MolecuSpec provides real-time process analysis of multiple chemicals, and autonomous function, in one versatile unit.

MolecuSpec[™] 900

The high-temperature MolecuSpec 900 provides real-time process monitoring and analysis capability of multiple chemical compounds at industry leading temperatures of up to 900°C.

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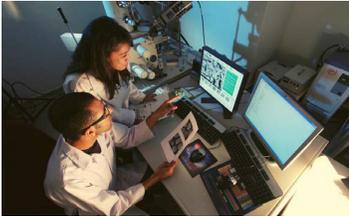




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MolecuSpec™ Product Use Cases



R&D

- Process characterization
- High-temperature materials research
- Catalytic mechanisms/poisoning
- Nano materials



Metal Making & Processing

- Process QA/QC
- Molten salt heat treating contaminants
- Molten salt dip braze processes
- Emissions



Oil & Gas

- Hydrogen/gas blends
- Fuel gas composition
- Monitoring of cracking/refining
- Petrochemical processes



Glass Manufacturing & Processing

- Glass production process
- Ion exchange baths



Fossil Energy

- Fuel gas composition
- Closed cycle working fluids
- Fugitive emissions characterization
- Carbon capture



Chemical Processing & Manufacturing

- Process control
- Polymer synthesis/conversion
- Extraction/infiltration
- Waste processing



Concentrating Solar Power

- Thermal storage/transfer fluids
- sCO₂/Closed cycle working fluids
- Molten salt stability and corrosions



Nuclear Energy

- Thermal storage/transfer fluids
- sCO₂/Closed cycle working fluids
- Molten salt stability and corrosion