

Continuous **Process Analysis** of Liquids

Rugged FTIR Spectrometer



Solution is the sum of the parts

Probe ■ Sensor ■ Application

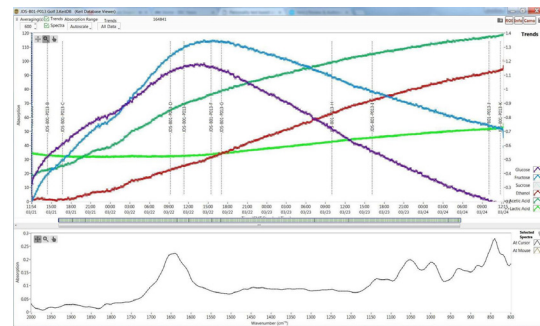
1 Probe

Hastelloy or stainless steel probe
pH range 0-9
Temp range -15°C to +40°C (ambient)



2 Reaction Analysis

On-line monitoring, real-time results
Multi-component analysis of liquids
Simultaneous Identification of:
Sugars, acids, proteins and alcohols
Water in glycols
Alcohol in gasoline



3 Rugged FTIR Spectrometer

Vibration resistant
Certified safe for use in hazardous and potentially explosive environments



Qualities

- Stable
- Low maintenance
- in situ probe for on-line analysis
- Safe for hazardous environments
- Mid-infrared (MIR/FTIR)
- Compact



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Innovation in Process Analytical Technology

The Keit IRmadillo™ FTIR spectrometer excels in the manufacturing environment for analysis of liquids due to its solid-state design and suitability for use in hazardous environments.

Industry	Chemical Analysis
Petro-chemicals	Water in glycol, aromatics (benzene, toluene and xylene), mono and poly-glycerides, alcohols (methanol, ethanol, glycerol), esters, fatty acids
Fermentation/Biorenewables	Sugar, alcohols (ethanol, butanol), carboxylic acids (ethanoic / acetic acid, butyric acid), ketones and aldehydes (acetone), proteins, esters, anhydrides and carbonates
Pharmaceuticals	APIs, reagents, reaction intermediates
Bulk Chemicals	Acetic acid, PPD
Agro-chemicals	Pesticides, fertilisers
Polymers & Plastics	Additives in hot melt
Food & Beverages <ul style="list-style-type: none"> ▀ Beer, Wine, Tea & Coffee ▀ Chocolate ▀ Dairy ▀ Tobacco 	Sugars, proteins, acids, fatty acids, oils Alcohol, caffeine, sugars & polysaccharides, acids Fats, proteins, sugars Fats, proteins, sugars Nicotine, humectants
Municipal Solid Waste (MSW)	Soluble cellulose, organic matter

Better Process Monitoring and Control

Keit's IRmadillo provides continuous, real-time process analysis of liquids for faster decisions, and better resource management.



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