

# Continuous **Process Analysis** of Liquids

## Solid-State Spectrometer



## **Solution is the sum of the parts**

Probe ■ Sensor ■ Application

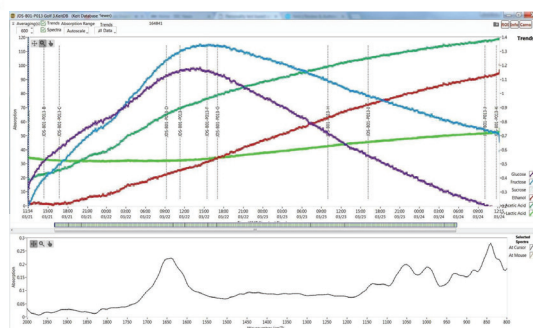
### **1** Probe

Novel Hastelloy probe:  
pH range 0-9  
temp range -15°C to 40°C



### **2** Reaction Analysis

On-line monitoring, real-time results  
Identification of:  
Sugars and EtOH  
Water in glycol  
Hydrogen peroxide in water



### **3** Solid-State FTIR Spectrometer

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



#### **Qualities**

- Solid state
- Inert Hastelloy probe
- pH range 0-9
- Safe for hazardous environments
- Mid-infrared (MIR/FTIR)
- Compact

Distributed by



3400 East Third Avenue, Foster City, CA 94404  
650-312-0900 LQA@LQA.com  
www.LQA.com



## Innovation in Process Analytical Technology

The Keit IRmadillo™ FTIR spectrometer excels in the manufacturing environment 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"><li>Beer, Wine, Tea &amp; Coffee</li><li>Chocolate</li><li>Dairy</li><li>Tobacco</li></ul>	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 provides continuous, real-time process analysis of liquids for faster decisions, and better resource management.

