



IRmadilloTM
FTIR Spectrometer



Fit for the Process Environment

**Vibration proof
for manufacturing
floor**



**Compact &
rugged**



**Certified for
hazardous
environments**



**In-line process
monitoring of liquids**

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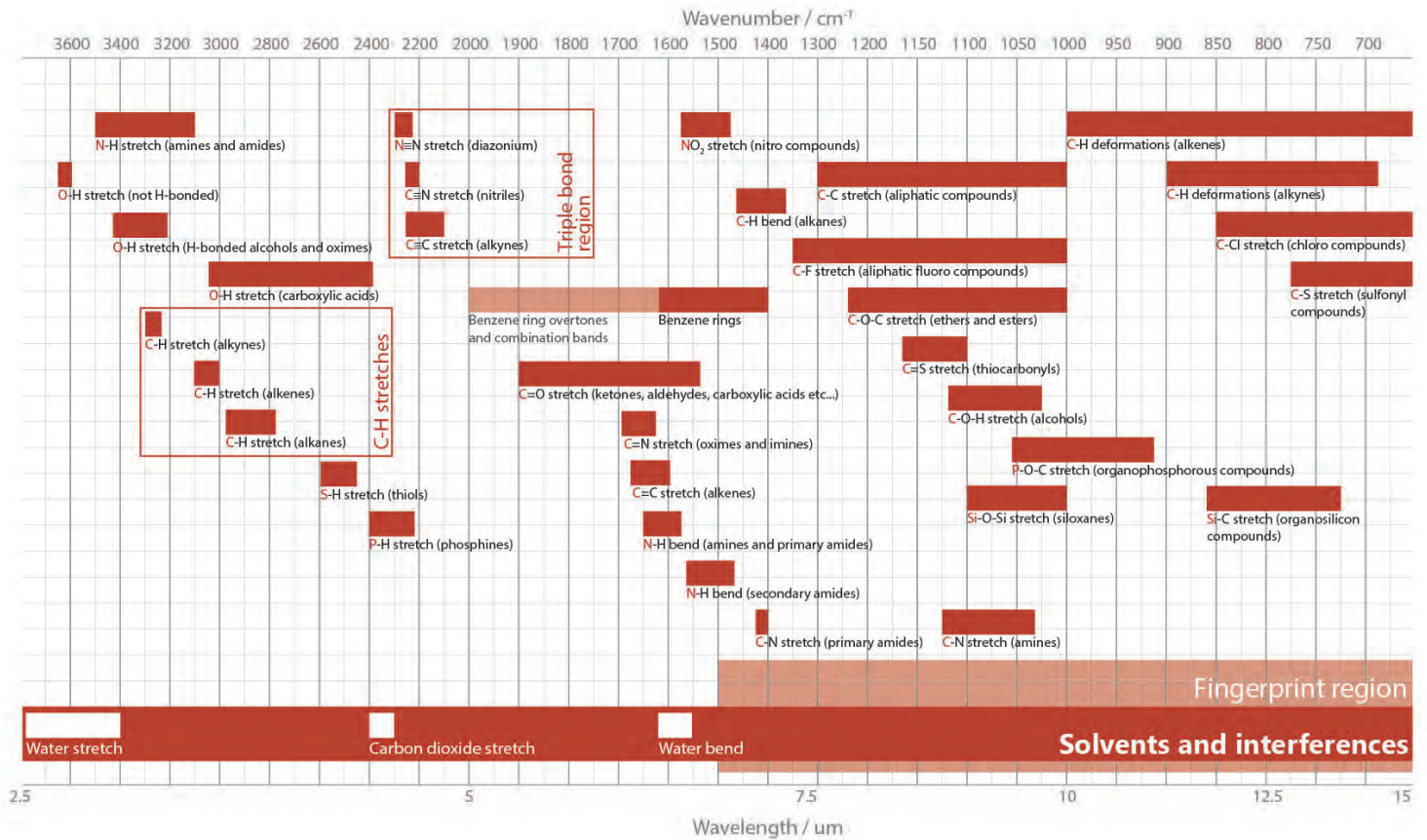


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Power of Mid-Infrared



- Compact
- Certified safe for hazardous environments
- in situ monitoring
- Response time
- Drift free
- Sensitivity
- Stability



Fixed Probe

- Infrared glass or diamond ATR crystal
- Hastelloy or stainless steel
- Temperature (ambient) -15°C to +40°C
- FFKM O-rings (20 bar absolute)
- Long-life infrared light source



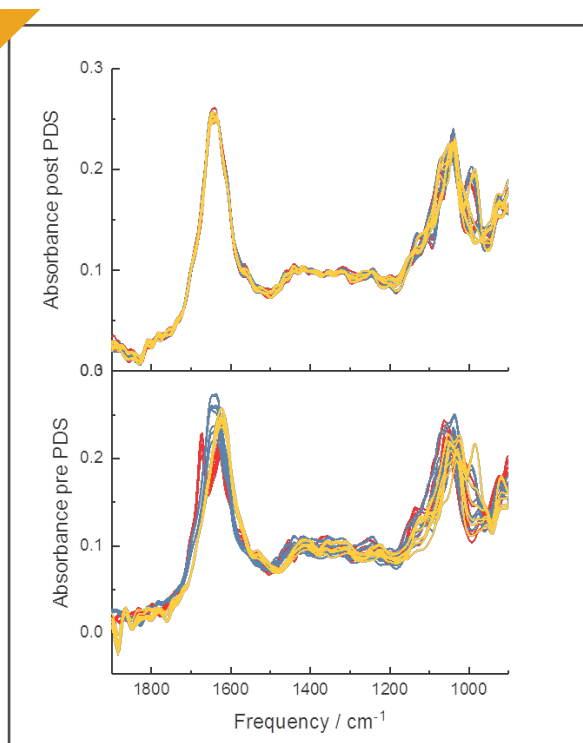
Uniquely Rugged & Compact Body

- Vibration tolerant
- Compact body (310mm x 200mm x 281mm)
- Certified safe for use in hazardous and potentially explosive environments
- Suitable for indoor or outdoor use
- Low maintenance, low power

Rugged In-line Quantification

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	Sugars, proteins, acids, fatty acids, oils
<ul style="list-style-type: none"> ▸ Beer, Wine, Tea & Coffee ▸ Chocolate ▸ Dairy ▸ Tobacco 	<ul style="list-style-type: none"> Alcohol, caffeine, sugars & polysaccharides, acids Fats, proteins, sugars Fats, proteins, sugars Nicotine, humectants
Municipal Solid Waste (MSW)	Soluble cellulose, organic matter

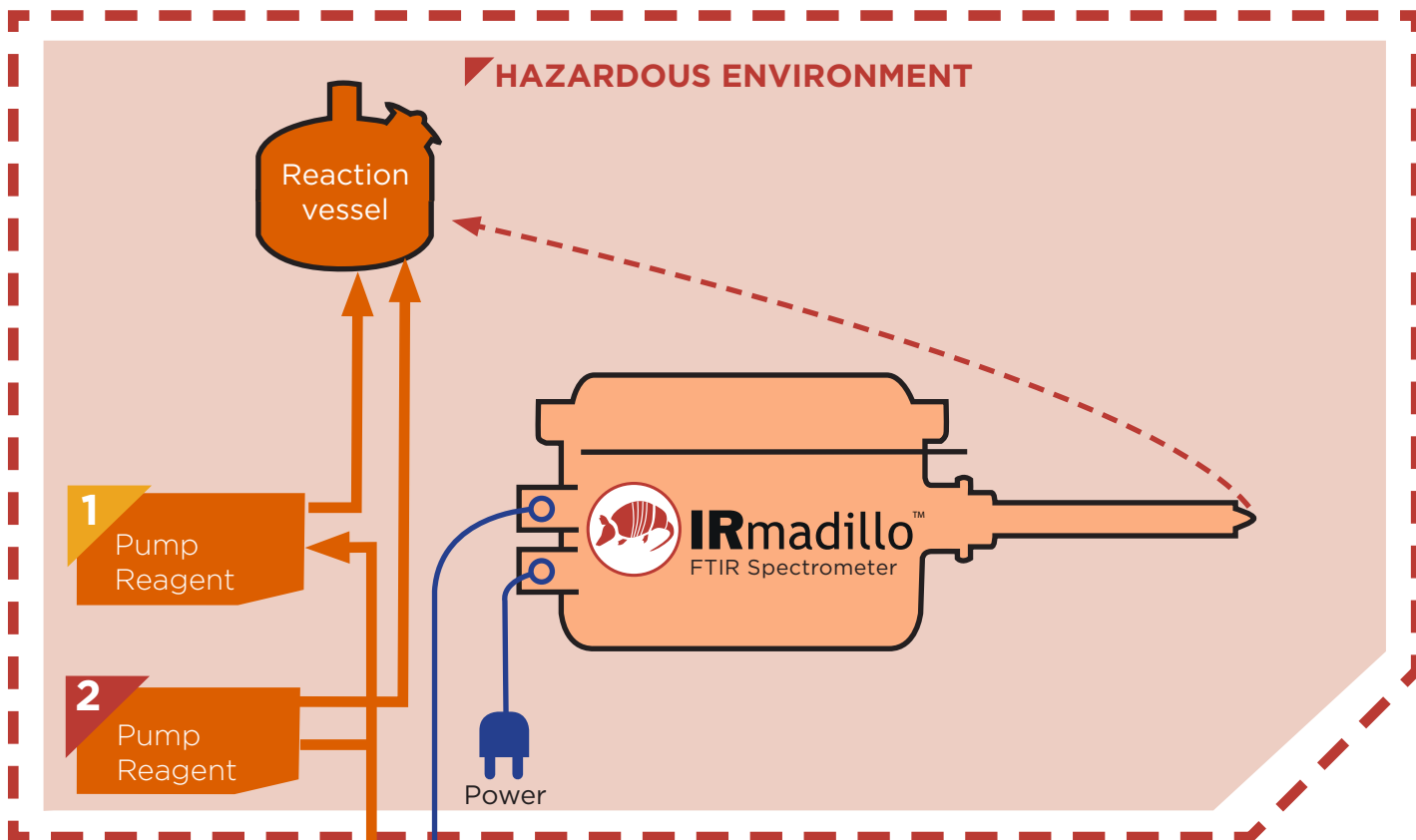


Calibration Transfer

Multiple instruments can be programmed to behave the same regardless of location, environment or age.

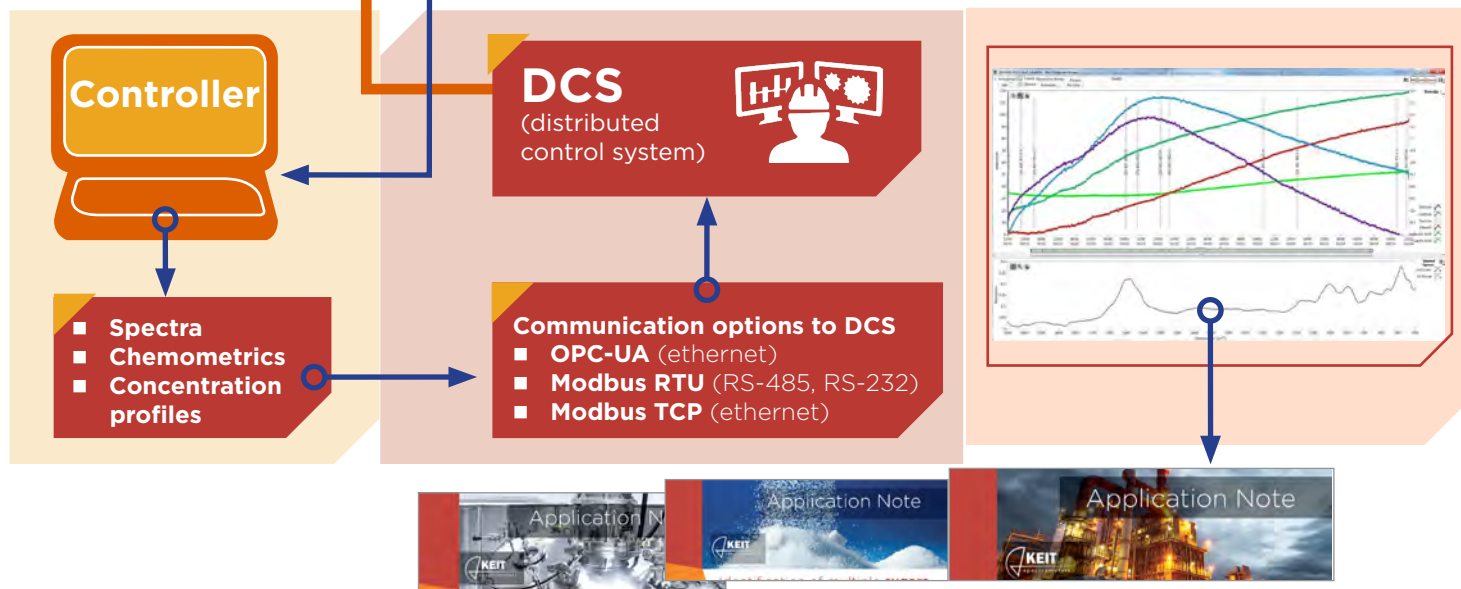
The patented solid-state design of the IRmadillo makes calibration (model) transfer a reality. The robust optical arrangement within the spectrometer does not drift or change with time.

The figure on the left shows spectra before (bottom) and after (top) a calibration transfer algorithm was applied. This means you only need to build the model once.



Real-time Analyser for Production Environment

Certified safe for use in hazardous environments, the IRmadillo FTIR spectrometer works directly in your manufacturing environment to provide real-time, continuous information of your chemical concentrations in liquid processes.



28 June 2019 2:45 pm

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