

Project SENSE led by Proxisense

Partners



University of
Strathclyde
Glasgow



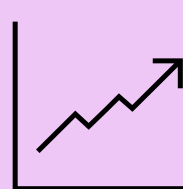
Issue or opportunity being addressed

Recovering and reusing isopropyl alcohol (IPA) can reduce solvent waste and energy use – but fluctuating concentrations make efficient recovery difficult

Solvent
recovery (IPA)



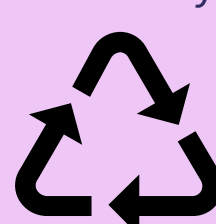
Concentration
fluctuates



Limited real-time
process visibility



Reduced recovery
efficiency



Introduction to the new technology or solution

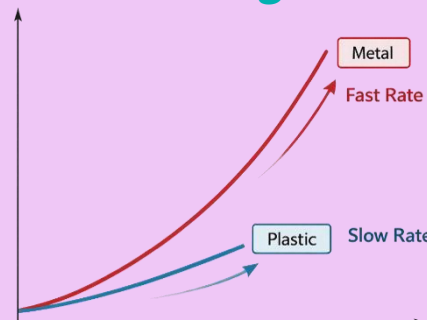
LiquiSensor™ turns a simple measurement of heat transfer into real-time information about what's happening in a liquid

**Heat Transfer between
materials**



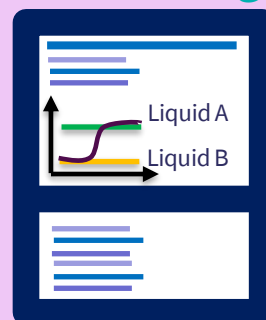
Touching metal vs plastic
feels different

Thermal Signature



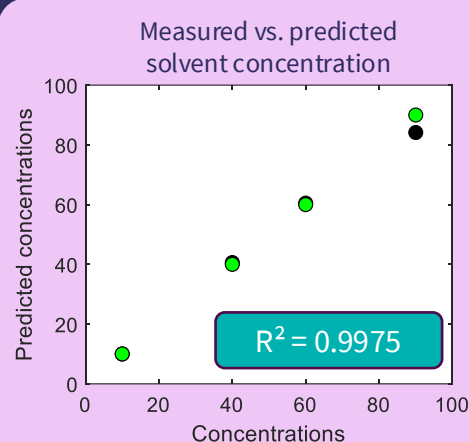
The rate of energy transfer
varies between materials

Material Insight



Differences in thermal transfer
behaviour reveal material
characteristics

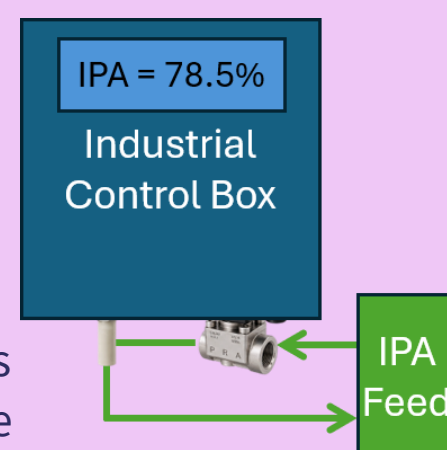
Impact of the technology or solution



Validated - A top 10 global pharmaceutical company demonstrated quantitative organic solvent/water concentration monitoring in continuous flow

Integrated - Demonstrated integration into industrial process environments

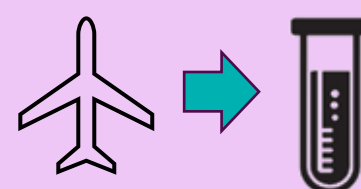
Sustainable - Real-time process insight supports process optimisation, helping to reduce material waste, improve resource efficiency and enable more sustainable manufacturing



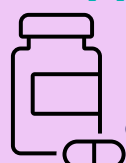
Target market (commercialisation)

From aerospace to process industries

Originally developed for aerospace applications, the technology has evolved into a versatile platform for real-time monitoring across pharmaceutical, chemical and other high-value processes.



Pharma & Biopharma



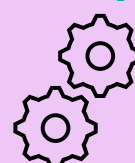
Real time formulation
& solvent monitoring

Specialty Chemicals



Process & composition
monitoring

Process Industries



In-line monitoring &
process optimisation

One platform. Multiple industries. Real-time process insight.

This project is part of the Sustainable Medicines Manufacturing Innovation Programme (SMMIP).
Contact: future.medicines@iuk.ukri.org

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UK**

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