

# Unparalleled multiphase separator control with the Tracerco Profiler™

The Tracerco Profiler™ enables process visualisation in real time, allowing operators to maximise production throughput, reduce unscheduled shutdowns and save costs.

## The Challenge

Whether operators are working with new discoveries, or mature fields, accurate and reliable control systems are essential. Not having the correct information on vessel separation performance, from interface or level control devices, can create several undesirable processing scenarios.

These include:

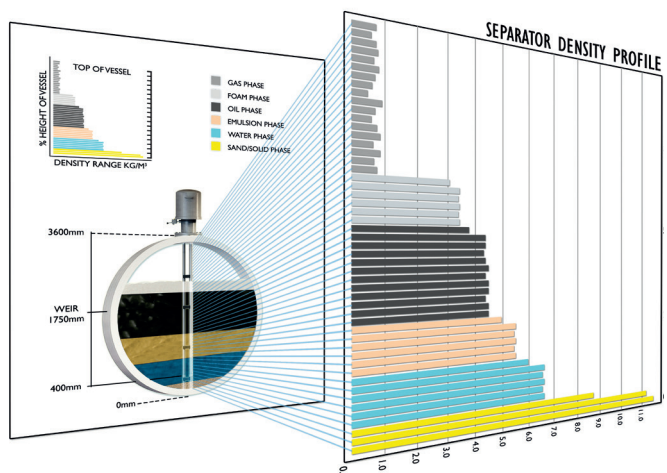
- Increased basic sediment and water – increased risk of blockages, fouling and reduced productivity.
- Increased oil in water – the potential for environmental penalties for overboard discharge and increased treatment demand.
- Liquid carry-over in the gas stream, leading to compressor trips and failure.
- Foaming – leads to difficult level control, process upsets and compressor trips.
- Overloading treatment chemicals – increased chemical cost and reduces vessel efficiency.
- High concentrations of water carry-over, leading to downstream corrosion.

All these issues are completely avoidable production problems, and negatively impact the quality and quantity of crude throughput.



## The Solution

With the Tracerco Profiler™, each phase (solids, hydrocarbon, water, or a mixture), is measured over a wide range of temperatures at high resolution, to provide accurate visualisation of the asset's performance.



## The Science

The Tracerco Profiler™ not only detects the presence of foam and emulsion, but also their extent. This allows operators to evaluate the impact of dosing regimens for antifoam, or emulsion-breaking chemicals, and deliver the appropriate amount when necessary. As well as reducing costs, the Tracerco Profiler™ provides insight to reduce the amount of oil in water, improving environmental and quality compliance. The Tracerco Profiler™ is trusted in hundreds of the most challenging and diverse applications, ranging from subsea/topside separation, to downstream refining and petrochemical. Its field-proven technology provides an unparalleled separation solution in diverse applications across the globe.

## The Benefits

- Achieve total multiphase control for process optimisation.
- Maximise production throughput.
- Adhere to environmental regulations and minimise safety risks.
- Reduce chemical dosage/additives.
- Predict process problems and minimise unplanned shutdowns.

Our innovative work gives customers the insights they need to help solve their problems. Read more of our case studies at [tracerco.com/downloads/case-studies](https://www.tracerco.com/downloads/case-studies)

## The Specifications

Performance	
Accuracy: ±1% of measurement range Maximum number of measurement points: 150 Update interval: 1 to 15 seconds	SIL2 (available upon request)
Environmental	
<b>Operating temperature range: Model dependent:</b> Probe temp range max: -55°C to +194°C (-67°F to +381°F) Ambient temp max: -20°C to +60°C (-4°F to +140°F) <b>All models:</b> Ingress protection rating: IP66	Segmented Geiger-Müller tubes
Communications	
Ethernet, Modbus TCP/IP, Modbus RTU, 4-20mA	
Mechanical	Electrical
Vessel nozzle size: 4" or greater Operating pressure: According to vessel design requirements Maximum length: Up to 20m	Power: Galvanic isolators
Certification	
<b>Attention:</b> Tamb is model dependent and is not stated. Full certification approval codes for all variants are available on request	
ATEX and IECEx	Zone 1, gas group IIB
CSA	Class 1 Zone 1, gas group IIB and Class 1, Div 1, Gas group C and D
FM	Class 1 Zone 1, gas group IIB and Class 1, Div 1, Gas group C and D
Product Code	Tools
T240 Profiler™	Tracerco Toolbox software