



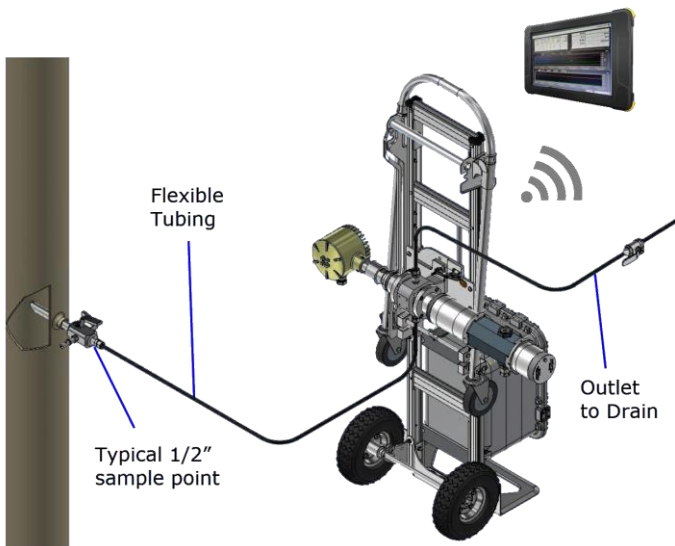
Real-Time Transportable Particle Size Analyser

SMS Transportable Particle Size Analyser enables clients to collect crucial Total Suspended Solids (TSS) and Particle Size Distribution (PSD) data directly from process lines in real-time.

System Overview

The online transportable particle analyser system accurately measures TSS and PSD in liquid taken directly from process sample points, in a closed loop or side stream configuration.

The image analysis is performed in real-time by Intelligent Analysis software, which is configured and operated via the system's wireless Ex rated tablet. The Intelligence Analysis (IA) software measures the suspended particulate (oil, solids, gas bubbles) under several parameters to provide concentration and size data.



Features

Real-Time Solids Analysis

- Real-Time Total Suspended Solids (TSS) and Particle Size Distribution (PSD) data with visual verification

Transportable

- Trolley design enables the entire system to be laid flat for easy transportation to suitable locations

Robust Monitoring System

- Requires minimal maintenance, infield calibration

Fused Glass Window

- Fused glass to metal window creates a smooth surface that does not alter fluid dynamics

Benefits

Increased safety

- Reduced risk and personnel exposure to potentially harmful contaminants

Intelligent Analysis

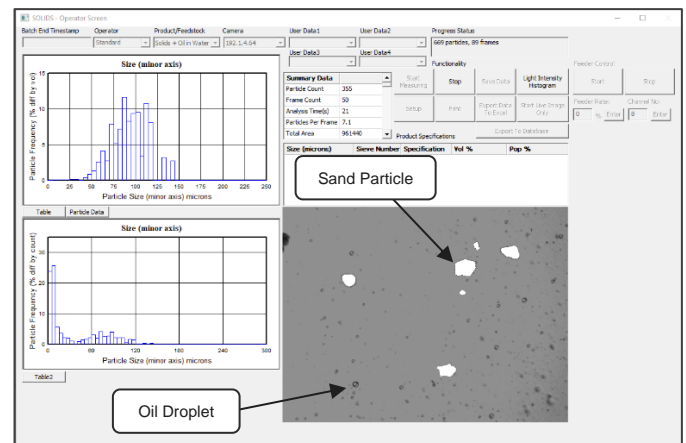
- Distinguishes solids, oil, water and gas particles

Not Sample Size Limited

- No minimum sample size/weight requirement

Minimal Turnover

- No logistics/transportation of samples to labs for results



Sense



Understand

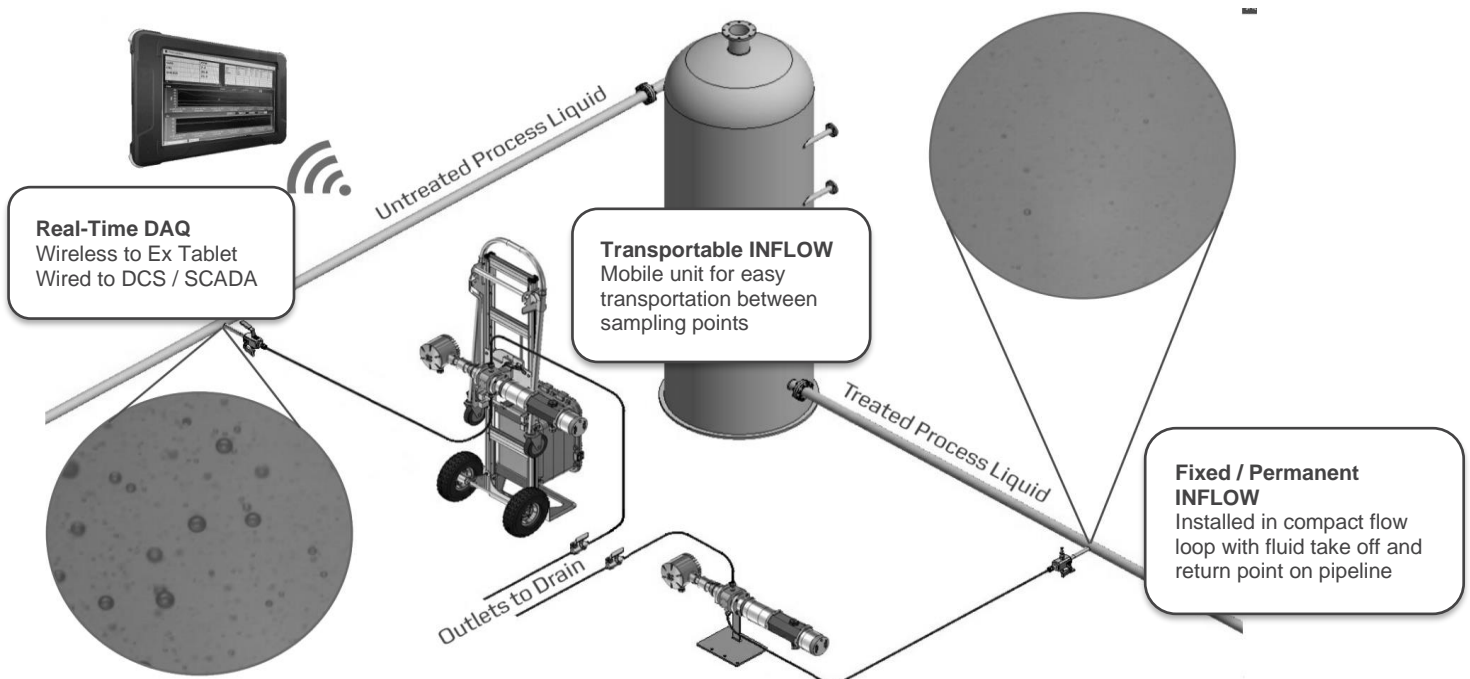


Perform

Real-Time Transportable Particle Size Analyser

Specification

Analysis Technique	Dynamic Imaging – self lighting, calibration adjustable
Data Output	Typical PSD Data (Dv, Dn values in Excel format files)
Max Flow Rate	8 Litres / minute
Operating Pressure	500 PSI (34.5 Bar)
Operating Temperature	0 to 93°C (32 to 200°F)
Output Range and Accuracy	0.7 – 960 micron particle size options
Calibration	Factory set calibration Calibration recommended after significant transportation and according to project scope
Reading Frequency	Up to 15 frames per second (depending on acquisition settings)
Data Interface	Real-time output direct into acquisition system
Power	24 VDC 8A or 100-240 VAC, 50/60Hz
Hazardous Area Classification	Zone 1 / II 1/2 GD, Ex db IIB+H2 T5
Outputs	Analogue: Dual isolated 4-20 mA (loop powered) Digital: OPC, TCP/IP
Displays	External wireless tablet (display & control)
Interface	CantyVision Intelligent Analysis
Pipework Connections	½" Swagelok Inlet & Outlet
Dimensions	520 x 570 x 1580 mm, 71kg



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