

FluidInspectIR® - Portable Oil in Water Analyser

Summary Information:



- Detectable range of 0-5000ppm
- Correlates to ASTM D7066-04
- Tetrachlorethylene solvent
- Portable and battery operated



Product Description:

The FluidInspectIR® Portable Oil in Water Analyser uses Mid Infrared Spectroscopy, based on the ASTM D7066 standard, to extract oil in water concentration - FOG (fats, oil and grease) concentration as a combined output in wastewater.

The Analyser is basically maintenance free being exclusively constructed from solid state dispersion elements, a black body infrared emitter and infrared sensor element. The Analyser comes with a sophisticated but user-friendly software which is run from a connected tablet/laptop. It can be portably operated with a battery or mains supplied as a benchtop device. The system comes in a briefcase setup complete with utilities to perform the measurements

Application:

The FluidInspectIR® analyser measures the total oil (Fats, oils greases) concentration in water samples with the same accuracy as conventional oil laboratories reports. The usual extraction method of oil in water is by pre-mixing the sample with a tetrachlorethylene solvent extracting a sample of oil/solvent mixture to be measured on the analyser.

How to use:

The 2-3ml of the oil/solvent sample mixture is dispensed into the inlet tubing of the flow-cell via a syringe. The flow-cell is placed into the analyser and the measurement is started from the software. The software is an easy-to-use GUI ran from a Laptop / tablet (windows 10).

After about 30s the measured parameters of the sample will be displayed. The user can add traffic light specification (green/yellow/red) limits to aid the interpretation of the results. The flow cell is subsequently flushed through with a new sample ready for the next measurement.

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Specification:

GUI: Software Console provided for running on windows 10 based laptop / tablet (tablet can be provided as option)

Ambient operating temperature and humidity range: 0-70C non -condensing

Power requirement: 230VAC for mains. 2500mAH LiPo battery in device

Internal battery capability typical runtime: 250 sample measurements between charge

Compliance: Correlates with ASTM D7066(04)

Cuvettes : 1x Cuvettes (flow-cells)

Consumables: Syringes for oil dispense (5ml)

Sample volume: 2-3ml

Measurement range: 0 to 5000ppm

