

FluidInspectIR® - Portable Ethanol in Gasoline Analyser

Summary Information:

- Ethanol in Gasoline Analyser
- Correlates with ASTM D4815(GC)
- Detectable range of 0 to 20% Ethanol
- Portable and battery operated



Product Description:

The FluidInspectIR® Portable Ethanol in Gasoline Analyser uses Mid Infrared Spectroscopy to extract the ethanol concentration of a gasoline sample. 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 ethanol volumetric % concentration in gasoline samples with the same accuracy as conventional oil laboratories reports.

How to use:

The 2-3ml of the gasoline sample 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 D4815(GC)

Cuvettes : 1x Cuvettes (flow-cells) with 100µm pathlength.

Consumables: Syringes for oil dispense (5ml)

Sample volume: 2-3ml

Repeatability: <+-2% of measured value

Accuracy: <+-2% of measured value

Measurement range: 0 to 20% v/v ethanol in gasoline.

