

Ethanol% in Gasoline Portable Analyser

Summary Information:

- ATR Mid Infrared Spectroscopy
- Correlates with ASTM D4815(GC)
- Detectable range of 0 to 20% Ethanol
- Error of 0.5% v/v at E10
- Portable and battery operated
- 500 measurements without recharging



Product Description:

The Ethanol In Gasoline Analyser uses ATR Spectroscopy, based on the ASTM D4815 standard, to extract the Ethanol % parameter from a Gasoline (petrol) sample. The Analyser is basically maintenance free being exclusively constructed from solid state dispersion elements, a black body infrared emitter and infrared sensor element. It is very robust with an outstanding battery lifetime. The Analyser comes with a sophisticated but user-friendly software which is run from an-situ tablet.

Application:

With many countries tightening regulations on gasoline content, it is very important to have a reliable measurement device that can be used in the Laboratory and in the Field. The analyser comes complete with a calibration file for measuring E0-E20 (0-20% ethanol content in gasoline). gives the user rapid, accurate on-site analysis. The short measurement time for this application (as explained in 'how to use') increases the accuracy of the measurement due to the volatility of gasoline.

How to use:

The gasoline sample is placed on the ATR crystal which forms part of the spectrometer. This is done easily with a pipette of approximately 0.5-0.75ml. The measurement is started from the software. After about 30s the ethanol% of the sample will be displayed. The user can add traffic light specification (green/yellow/red) limits to make the result easily defined for any operational personnel.

Specification:

- Mid-infrared ATR Spectrometer
 - 1800-900cm⁻¹
 - Spectral Resolution 36-18cm⁻¹
- Size: 39cm(W)*31cm(L)*17cm(D)
- Weight: 8kg
- Windows 10 Operating System

Special Features :

- Simultaneous system charging and measurement feature.
- Fixed internal batteries – no need for exchanging.
- Long battery charge life
- Fold-away Bluetooth keyboard and integrated touchpad.
- Microsoft Surface tablet (touchscreen)
- 2 USB Ports and RJ-45 ethernet connection for external access to ATR.
- Large compartment for wipes and pipettes and storage of fold-away keyboard