

Lab In Box

Summary Information:

- ATR Mid Infrared Spectrometer
- Integrated Tablet
- Portable and battery operated
- Spectroscopy in the field



Product Description:

Lab in Box includes everything you need to move the powerful analytical technology of mid-infrared spectroscopy out of the laboratory into the field. It includes an ATR spectrometer and an integrated tablet computer (touchscreen functionality) and uses the Expressed Mode Software for simple functionality. The ATR spectrometer has a spectral resolution between 36 - 18cm⁻¹ and operates in the wavelength range from 1800cm⁻¹ to 900cm⁻¹. The Lab in Box offers the user many self-check features that ensures that the measurement process is carried out correctly and that the data are valid.

Application:

The Lab in Box is designed to provide quick and accurate analysis in the field. The Lab In Box can come as an Application Specific analyser like the FAME% analyser or as a system ready to be calibrated for whatever the customer wishes to measure. Once calibrated, the system will allow the customer to analyse the samples in real time, without any need to ship the samples to a laboratory. The results will be available within minutes and are displayed in an easy to understand manner. The results can either be saved and transmitted digitally.

How to use:

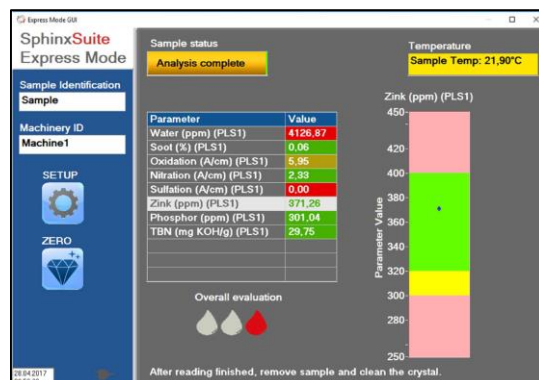
The biodiesel sample is placed on the ATR crystal which forms part of the spectrometer. This is done easily with a pipette of approximately 0.5-0.75ml. The measurement is started from the software. After about 30s the FAME% of the sample will be displayed. The user can add traffic light specification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

Specification:

- Mid-infrared Spectrometer
- Touchscreen functionality
- Windows 10 Operating System
- Exchangeable LiPo batteries
- Power Supply 5V 4A/USB
- Size: 330x280x125mm
- Weight: 6.5kg

Validated Market Segments:

- Oil Condition Monitoring
- Fuel Analysis
- Food Industry
- Industrial Fluid analysis



Express Mode Software Interface:
Oil condition analysis in easy to read data output