

Oil Condition Monitoring (OCM) Portable Analyser

Summary Information:

- ATR Mid Infrared Spectroscopy
- Measurement of key parameters in oils and lubricants
- Engine, gearbox, hydraulic oils
- Calibration File Library available
- Oxidation, Nitration, Sulphation, Anti-wear, water, TAN, TBN, others
- Correlates to E2412 for FTIR OCM parameters
- Portable and battery operated
- 500 measurements without recharging



Product Description:

The OCM Analyser uses ATR Spectroscopy, based on the ASTM E2412 standard, to extract the key oil degradation parameters during the drain cycle of a process lubricant. 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 in-situ tablet.

Application:

Industrial oils and lubricants used in engines (automotive, marine, biogas), gearboxes (wind turbines) and hydraulic systems, contain a base oil and a complex mixture of additives to enhance the oil's lifetime, lubrication and application properties. The oils are used to lubricate critical parts of often very expensive machinery. Knowing the quality of the lubricant at any given point in time enables the customers to optimise the environmental and operational performance and to optimise maintenance cycles.

How to use:

The oil 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 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.

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