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Next Generation Hydrocarbon Analyzer for Lab Automation Process Development

Schneider Electric
ANALECT® RefinIR



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Schneider Electric ANALECT® RefinIR™

NextGen Hydrocarbon Analyzer for Lab Automation Process Development

The all new ANALECT RefinIR is a fully integrated laboratory autosampler and FTIR instrument. It is designed to measure liquid hydrocarbons including gasoline, diesel and crude oils in a single autosampler. It features the ANALECT Diamond 20™ Transept™ interferometer platform with the improved DCM 600™ data acquisition electronics. This provides improved performance utilizing SpectraQ software with a customizable HMI for operating the system. Determination of physical properties and chemical composition can be achieved with the touch of a button. The RefinIR system automates calibration data collection in support of the Hydrocarbon SmartSystem® on-line process analyzer.

Spectra Q™ Software Simplifies the Data Collection Process

With one touch of the button, SpectraQ software allows the user to automatically collect FTIR spectra of a full carousel of samples. In addition, the software provides the user the ability to perform a full ASTM D6122 validation to ensure spectral integrity.

- Full chemometric modeling capability including SpectraQuant is available. Optional third party chemometric software can be added including MATLAB®, Eigenvector SoloPredictor® and Unscrambler.
- Communications options - Modbus®, OPC® and ethernet to LIMS.



Specifications

- Optibus™ optical transfer components integrate with Diamond 20™ Transept interferometer
- Single-cell system for analyzing liquid hydrocarbons
- 0.25 and 0.5 mm pathlength liquid transmission cell
- Maximum vial-to-vial cross contamination : < 0.1%
- Thermo-electrically stabilized DTGS detector
- 115 VAC/60 Hz or 230 VAC 50/60 Hz
- Automated sampling system including carousel for twenty-four (24) 15ml vials
- Two (2) liter vessels for wash and validation solvents
- Dimensions: 74H x 60W x 45D cm (29H x 24W x 18D in.) Weight: 90 kg (200 lb)
- Oven controllers and intrinsically safe sensors to enable the sampling of flammable and non-flammable samples over the range of 40°C +/- 1°C to 125°C +/-1°C
- Analog input card for the host computer to read cell temperature

Schneider Electric
Analyzer Systems (Formerly AIT)
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RefinIR Features

- RefinIR delivers automated spectral data acquisition of multiple liquid refinery stream samples from crude oils to blended gasoline and diesel.
- Autosampler can be heated up to 125°C to allow sampling of heavy crudes and intermediates, such as FCC feed.
- Utilizes the ANALECT XCORR™ model transference protocol allowing data to be transferred to the on-line ANALECT Hydrocarbon SmartSystem®.
- Holds 24 15 ml vials and automatically transfers the sample to a flow-through transmission cell embedded in the autosampler.
- Includes compliance to ASTM D6122 via a wash and validation functionality that eliminates cross-contamination of samples and provides a quick assurance of spectral quality.
- Reduces the laboratory benchtop foot print of the prior ANALECT RefinIR by up to 60%.
- Newly designed carousel for robust operation.