FTIR for Near Real-Time Silica Analysis

L160000B Spectrum Two FT-IR/Sp10 Software, APV

The Spectrum Two spectrometer, based on a new DynaScan interferometer with KBr optics delivers a scan range of 8,300-350 cm-1 whilst offering 0.5 cm-1 resolution and 9,300:1 peak-peak signal-to-noise for 5 second scan in a sleek, compact design.

Features and Benefits:

- OpticsGuard™ technology: A unique humidity shield design protects Spectrum Two from environmental effects allowing it to be used in more challenging environments, and with extended intervals between desiccant changes to lower maintenance costs

- Atmospheric Vapor Compensation™ (AVC): AVC features an advanced digital filtering algorithm designed to subtract CO_2 and H_2O absorptions automatically in real time

- Sigma-Delta conversion: The use of Sigma-Delta converters in the digitization of the FT-IR interferogram improves dynamic range, reduces spectral artefacts and increases ordinate linearity

- Includes basic transmission functionality with optional fully integrated, robust universal sampling ensures trouble-free measurements

- Also available are an optional portability pack (including carry case, Wi-Fi router and battery pack) for remote testing and optional introductory and application packs for faster implementation

- Includes Automatic Performance Verification (APV) comprising of an integrated fully automatic filter wheel containing traceable reference materials and software allowing abscissa, ordinate, noise, ASTM and USP tests to be performed

- Absolute Virtual Instrument (AVI) to allow the production of standard data referenced to fundamental band positions is also included using a manual methane reference cell

The included Spectrum 10 software suite is fully validated and includes the following functionality:

- Spectrum 10 Software

- Full Instrument setup and control functions

- Basic and advanced data manipulation routines

- Spectral arithmetic calculations with custom Equations Editor

- COMPARE spectral comparison

- PLS/PCR/Beer's Law predictions

- Beer's Law Quant method development

- Spectrum 10 easy macro writer

- Data tune-up

- Spectral searching

- Search Starter Libraries

- Configurable reporting and data export

- Built-in Tutorials and online Help

- Laboratory scheduler

- Scanalyze for real-time results while scanning

Supplied with mains cable, Ethernet and USB cables, electronic user's and maintenance guide on CD, certificate of conformity and fuses.

Power Requirements: 100-240 V, 50/60 Hz

Power Cords: Country specific line cords to be ordered separately Dimensions: Width 450 mm, Depth 300 mm, Height 210 mm Product Weight: 13 Kg

Warranty: Includes PerkinElmer 1 Year Warranty

Installation: Optional

Requires but not included: PC, Printer (Optional)