Спектрометр Фурье

Analect-EVM

Технические характеристики

AIT

ALL NEW! *FTIR Environmental Analyzer*

The **ANALECT**®**EVM**™ system is a high performance environmental vapor monitor leveraging the process proven ANALECT FTIR platform. The rackmount analyzer is contained in an enclosed cabinet utilizing a clear door for quick visual inspection of system results and performance. It provides "round-the-clock" multi-point continuous air monitoring of a wide variety of environmental applications including

- *Ambient air OSHA compliance for workplace safety*
- *Gases for production of unwanted byproducts*
- *Low level leak detection of hazardous compounds*
- *EPA method 320 HAPS*

Key Features Incude

- *Proven, reliable FTIR technology yields real-time analysis of both organic & inorganic compounds*
- *Measures ambient toxic and pollutant gases with ppb to % level detection*
- *SpectraEVM™ software engineered exclusively for on-line monitoring, allowing use by engineers, maintenance personnel, and chemists*
- *Full chemometric modeling capability including SpectraQuant,™ Unscrambler,® MATLAB,® and Pirouette®*
- *A variety of user-configurable alarms for instant warnings of toxic gas levels and system control*
- *Capable of monitoring 28 components with up to 32 sampling points over a distance of 300 meters from the monitor*
- *Rapid response time – typically 20-30 seconds per stream*
- *Validation panel for routine cylinder gas validation*
- *Configurable sample point selection locally or by DCS*
- *Communications options including Modbus,® OPC,® Ethernet and analog/digital*
- *Closed-loop calibration system supports injection calibration and validation*

Benefits of ambient air monitoring with *ANALECT®EVM™*

- *Proven reliability of the Transept™IV Interferometer even in harsh environments*
- *Rapid response time*
- *Windows® based software is easily configurable*
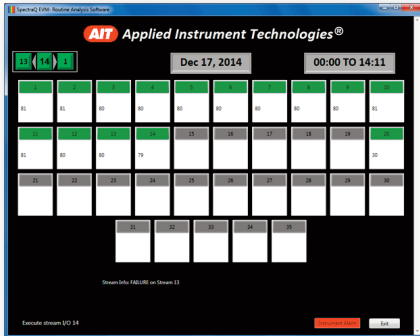- *Calibrations transferable to other EVM monitors*

Spectra EVM

ANALECT®EVM™

ANALECT® EVM™

SpectraEVM™ Software Drives Your Application

Fully automated analyzer operation

- *Instant visual status of all sample channels*
- *Click to see stream trends and analyzer operation*
- *Control I/O to switch valves and monitor a variety of sample system conditions*
- *Collect spectra and apply quantitative analysis routines*
- *Transmit product properties, instrument QC data, and alarms via versatile communications protocols*
- *Apply a wide variety of quantitative analysis routines including: SpetraQuant,™ MATLAB®and Pirouette®*
- *Utilizes Visual Basic for Applications (VBA) compatible scripting language to achieve total programming flexibility*
- *Operate system remotely & transfer files by using Windows remote access software*
- *Multi-level password access*
- *Automatically monitor and trend the system's "health" with Remote R_x software preventative maintenance scheduling*
- *Access the on-line help system for quick reference*

Specifications

Spectrometer:

- Interferometer: **Transept** IV hermetically-sealed interferometer with refractively scanned design
- Spectral range: Extended mid-IR 7,000 to 450 cm^{-1};
- Resolution: 1.5 cm^{-1} (unapodized)
- Detector: thermoelectrically controlled DTGS, (standard); TE controlled MCT

Sample Cell

- 10 meter pathlength standard. Other pathlengths optional
- Optional heated cell prevents condensation and stabilizes measurements.

Ambient Environmet Conditions

- Temperature range: 60-95°F / 15-30C
- Relative humidity (RH):   95% non-condensing

Area Classification

- Standard: General purpose
- Optional: Hazardous areas

Utility Requirements

- Rated voltage: 115/230 Vac ±10%
- Rated load: 2 kVA

Utility Requirements (continued)

- Rated frequency: 50/60Hz
- Nitrogen (N$_2$):   Optical purge 3-5 psi, 0.25-1 SCFM
- Instrument air or N$_2$:   80-120 psig,
                              for air operated values
                              (no continuous flow)
                              Enclosure vortex cooler (optional)
                              5-25 SCFM

Communications

- Standard: Ethernet, OPC or MODBUS TCP
- Optional: RS 232/422 Modbus RTU or ASCII
- Optional: Discrete analog/digital

Physical Dimensions

- Analyzer cabinet size: 72"H x 32"W x 42"D
                              185cm x 85cm x 110cm
- Weight: 500 lb/230 kg

Experience: – Our staff of applications experts provides feasibility and calibration services that set the world-wide standard. We also provide the systems integration and post-installation support to ensure your success.

AIT

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