FTIR Environmental Analyzer

The **ANALECT®EVM™** monitor provides round-the-clock multi-point continuous air monitoring for a variety of applications.

- Proven, reliable FTIR technology yields real-time analysis of both organic and inorganic compounds.
- Measures ambient toxic and pollutant gases with ppb to % level detection.
- 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 20-200 seconds per stream.
- 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.
- SpectraRTS[™] 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.®
- Applications
 - Monitor ambient air for OSHA compliance for workplace safety
 - Monitor gases for production or unwanted byproducts
- Low level leak detection of hazardous compounds
- EPA method 320 HAPS

Benefits of Ambient Air Monitoring With ANALECT® EVM™

- Proven reliability of the Transept™IV Interferometer even in harsh environments
- Rapid response time
- Easily configurable to meet changing measurement requirements
- Calibrations transferable to other EVM monitors



ANALECT®EVM™

ANALECT®EVM™

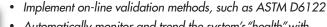


SpectraRTS™ Software Drives Your Application

Automate many aspects of your process

Spectra

- 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 Implement calibration tools and programming flexibility
- Apply a wide variety of quantitative analysis routines including: SpectraQuant,™ MATLAB® and Pirouette®
- · Utilizes Visual Basic for Applications (VBA) compatible scripting language to achieve total programming flexibility
- Operate the system remotely by using pcANYWHERE™ or Timbuktu® software
- Multi-level password access Validate and diagnose your system



- 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 7,400 to 450 cm⁻¹;
- Resolution: 1.5 cm⁻¹ (unapodized)
- Detector: DTGS pyroelectric (standard) and full line of external Optibus detectors, including DTGS, thermoelectrically controlled DTGS, MCT, liquid nitrogen cooled MCT (12 and 24 hr. dewars)

Sample Cell

- 10 meter pathlength standard. Other pathlengths optional
- Heated cell prevents condensation and stabilizes measurements. **Ambient Environmet Conditions**

• Temperature range: 0-95°F

 Relative humidity range (RH): 95% non-condensing

Area Classification

• Standard: General purpose Optional: Hazardous areas

Utility Requirements

 Rated voltage: $115/230 \text{ Vac } \pm 10\%$

• Rated load: 2 kVA

Utility Requirements (continued)

50/60Hz Rated frequency:

 Nitrogen (N₂): Optical purge 3-5 psi, 0.25-1 SCFM

 Instrument air or N₂: Enclosure vortex cooler

60-100 psi, 5-25 SCFM

Communications

• Standard: RS 232/422 Modbus RTU or ASCII

 Optional: Discrete analog/digital

Ethernet OPC Optional:

· Optional: Data concentration PC

Physical Dimensions

75"H x 56"W x 24"D • Analyzer cabinet size:

190cm x 142cm x 61cm

800 lb/360 kg · Weight:

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

Applied Instrument Technologies

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