Applied Instrument Technologies by Schneider Electric



FTIR/FT-NIR Analyzer

The **ANALECT*****PCM**[™]Series FTIR/FT-NIR process analyzers measure physical, chemical and compositional properties of liquids, solids and gases.

- On-line, in-situ, and at-line monitoring of batch and continuous processes.
- Displays up to 15 properties at once and measures up to 30 properties per stream.
- Optical multiplexing capabilities provide analysis of up to 16 process streams using fiber optic or extractive stream switching.
- Utilizes process-proven ANALECT Diamond 20 Transept[™] optical head:

 Vibration tolerant optical system allows placement of analyzer in hostile industrial environments.

 Absolute optical alignment of components provides for repeatable spectra, allowing calibrations to remain stable indefinitely.

 SpectraRTS[™] software engineered exclusively for on-line monitoring, allowing use by engineers, maintenance personnel, and chemists.





Full chemometric modeling capability including SpectraQuant,[™] MATLAB[∞] Unscrambler,[∞] & Pirouette[∞]

- Communication options including OPC^{*}, Modbus[®] as well as analog protocols.
- The PCM monitors versatility allows for a wide range of applications including:
 - Chemicals
 - Petrochemicals
 - Polymers
 - General manufacturing
 - Pharmaceuticals
 - Gas analysis

SAMPLING FLEXIBILITY

Liquids	Mid IR	NearlR
Transmission Probe	es 🔳	•
ATR Probes		
Cross-line Probes		•
Slip-stream Probes		•
Gases		
Gas Cells		
Solids		
Diffuse Reflectance	;	•



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Specifications

Spectrometer

Interferometer:

- Transept IV[™] hermetically sealed module with refractively scanned design
- Optical range: 7000–450 cm⁻¹ Mid-IR; 12000–1200 cm⁻¹ NIR
- Detector options: DTGS Pyroelectric; InAs; InGaAs; MCT Analysis Time
- 30–60 sec. for multiple property predictions *Ambient Environment Conditions*
- 0-38°C standard ambient temperature
 -20-50°C with optional heating and A/C system
 Area Classification
- ATEX/CENELEC Zone 1 & 2
- NFPA Class I, Division 1 & 2 Process Control Interface
- Modbus, OPC and analog protocols
- Fiber optic Ethernet and serial communications options Utility Requirements-Analyzer and Cell Enclosure
- Main power 115/230 VAC 50/60Hz single phase 1500 watts
 Instrument Dimensions: Optical Head and Sample Box
- 220cm H x 97cm W x 46cm D (87 H x 38 W x 18 D)
- Weight: 270kg (600lb)

ANALECT®PCM

SpectraRTS[™]Software Drives Your Process

Automate many aspects

of your process



- 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
- Implement on-line validation methods, such as ASTM D6122.
- Automatically monitor and trend the system's "health" with Remote R_x software for preventative maintenance scheduling.
- Access the on-line help system for quick reference.



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