Спектрометр Фурье

ANALECT-PCM-1000, ANALECT-PCM-5000

Технические характеристики

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Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
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Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

AIT

FTIR/FT-NIR Analyzer

PCM FT-NIR

PCM FT-Mid IR

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.*

Spectra Quant

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

	Mid IR	NearIR
Liquids		
Transmission Probes	■	■
ATR Probes	■	
Cross-line Probes	■	■
Slip-stream Probes	■	■
Gases		
Gas Cells	■	
Solids		
Diffuse Reflectance		■

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)

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.
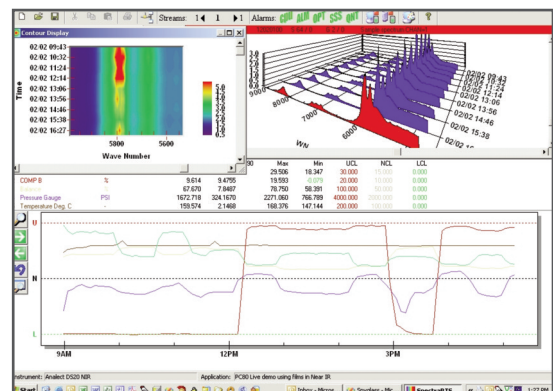- Access the on-line help system for quick reference.

The ANALECT® Diamond 20™ *analyzer supports on-line systems with process development utilizing the same optical bench as the ANALECT PCM for instrument to instrument calibration data transfer.*
SpectraStudio™ *a Windows® based data collection and analysis program is designed to provide a high degree of flexibility to users operating in a laboratory environment.*
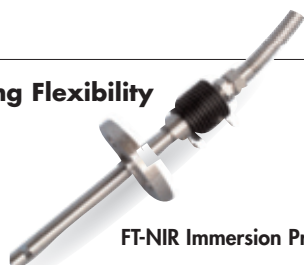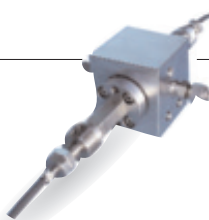
ANALECT Diamond 20

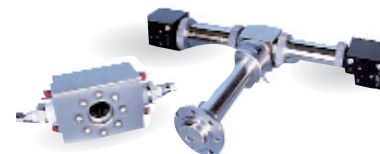*3D Spectral Display contour plots with property trendlines*

PCM Sampling Flexibility

FT-NIR Immersion Probe   **FT-NIR Cross-Line Probe**   **Mid-IR ATR Diamond Probe**

По вопросам продаж и поддержки обращайтесь:

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