Applied Instrument Technologies
by Schneider Electric

ANALECT® Diamond MX™

Rackmount FTIR/FT-NIR Analyzer

*The **ANALECT®Diamond MX™** FT-NIR process analyzer is configured for rackmount or benchtop applications. It provides rapid, accurate and stable real-time monitoring of physical properties and chemical composition of liquids and solids all from one instrument.*

- *Eight different sampling devices can be used with the same Diamond MX system.*
- *Unique to the Diamond MX system, the entire beam is switched from channel to channel, enhancing energy throughput and channel-to-channel precision.*
- *Fiber-optic sampling also allows the Diamond MX system to be placed remotely in any general purpose area.*
- *The heart of the analyzer is the rugged Diamond 20™ Transept™ interferometer featuring superior analytical stability and accuracy.*
- *The Diamond MX uses the same powerful SpectraRTS™ process software found in the ANALECT series of on-line and process development FTIR and FT-NIR analyzers.*
- *Full chemometric modeling capability including SpectraQuant,™ Unscrambler,® MATLAB® and Pirouette.®*
- *Seamless transfer of calibration between all ANALECT analyzers.*

Spectra RTS

ANALECT®Diamond MX™

ANALECT® Diamond MX™ cabinet mounted

New Diamond MX System VERSATILITY

A range of applications for raw material QC, on-line and in-situ process monitoring and final product inspection in these industries:

- **Hydrocarbon Processing**
- **Polymers**
- **Specialty Chemical**
- **Materials Processing**
- **Pharmaceuticals**

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Sampling Technology

9-channel Fiber Optical Multiplexer

- *allows fiber optic connection to sampling accessories*
- *achieves high throughput*
- *200 - 500 µ fiber optics*

Solid Sampling

ReflectIR Process Sampling Head

- *diffuse reflectance measurements of solids, polymers*
- *mountable over a conveyer belt*
- *hazardous area rated*

Liquid Sampling

Interface a variety of probes and cells for liquid phase analysis

Optional air handling unit for ReflectIR air knife

Specifications

Spectrometer

Interferometer:

- Transept IV™ hermetically sealed module with refractively scanned design
- Optical range 12,000 - 1200 cm^{-1}
- Detector options: InGAs, InAs

Ambient Environmental Conditions

• Temperature Range:	10-30°C (68-86°F)
• Relative Humidity Range (RH):	95%, non-condensing
• Electrical Area Classification:	General Purpose

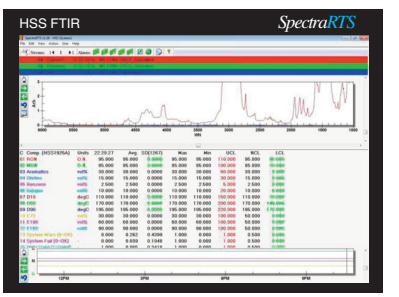
Utility Information

• AC Power voltage:	115/230 Vac ± 10%
• AC power freq:	50/60 Hz ± 1 Hz
• AC power usage:	300 watts

Options

- Internal or external source
- Multiple probe channels using 9-channel fiber-optic multiplexer
- Background and/or reference channel
- FC fiber connectors (SMA standard), ST option
- Multiple detector options
- Remote R_X diagnostics
- Desktop or Rackmount analyzer versions; includes Windows-based data station and software

SpectraRTS™ *delivers flexible set-up and control of your system, extensive diagnostics, easy-to-use scripting and robust DCS communications. Interactive communications allow model sets to be switched automatically when changing blend types thereby maximizing blended measurement efficency.*



ANALECT®ReflectIR™ Diffuse Reflectance Laboratory Accessory

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