NIRS XDS SmartProbe Analyzer



Robust and flexible measuring system for the quality control of solid and liquid substances





The NIRS XDS SmartProbe Analyzer enables fast, non-destructive analyses of solid and liquid substances and formulations. The NIRS XDS SmartProbe Analyzer can directly determine the identity and quality of a substance in its original transport containers; be it bottles, bags, or other containers. The anlyzer's robust and ergonomic design make the NIRS XDS SmartProbe Analyzer the ideal quality control solution in both the warehouse and in the laboratory.

Using the NIRS XDS SmartProbe Analyzer couldn't be easier. To take a measurement, the probe is simply put in the sample and the measuring button is pressed. Pass/fail results can immediately be read from the handle after the measurement.

The NIRS XDS SmartProbe Analyzer is ideal for:

- straightforward control tests on raw materials
- taking measurements directly in the transport containers and/or through transparent packaging
- replacing other more costly routine tests





User benefits 03

• Saves time and money – no need for sample preparation; provides analysis results in real-time

- Simple to use results at the press of a button
- Universal application, suitable for both liquids and solids

Key features

- Robust design for use in the warehouse and in production
- Quick change between probes for liquids and solids
- Measurements across the whole wavelength spectrum (400–2,500 nm)
- Network-compatible central result and data management (client-server solution)
- Universal interface for quickly changing the measuring modules in just seconds

Technical specifications

Measuring mode	Reflection and Transflection
Sample interface	Direct analysis
Wavelength range	400–2,500 nm
Measuring module	Hot-swappable
Detectors	Silicon (400–1,100 nm), lead sulphide (1,100–2,500 nm)
Data collection speed	2 scans/s
Data point interval	0.5 nm
Wavelength accuracy (currently recognized standard)	< 0.08 nm (SRM 1920)
Wavelength precision ¹	< 0.008 nm
Wavelength precision ² (instrument to instrument)	< 0.025 nm
Stray light	< 0.1% at 2,300 nm
Photometric linearity	< 1% of the measured value
Bandpass	8.75 ±0.10 nm
Noise (RMS)	
400-700 nm	< 80 micro AU
700–2,200 nm	< 30 micro AU
Weight	34.0 kg (83.0 lbs)
Dimensions (W \times H \times D)	455 × 346 × 559 mm (17.9" × 13.6" × 22")
Operating temperature range	4.5–35°C (40–95°F)
Relative humidity	10–90% RH, non-condensing

¹ based on a single analyzer

² based on a group of analyzers

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Ordering information

2.921.1610 2.921.1620	NIRS XDS SmartProbe Analyzer, 2 m fiber NIRS XDS SmartProbe Analyzer, 3 m fiber
	Comprised of:
1.921.0010	NIRS XDS Monochromator
1.921.0610	NIRS XDS SmartProbe Module, 2 m fiber
or 1.921.0620	NIRS XDS SmartProbe Module, 3 m fiber
6.7400.000	NIRS XDS accessory kit
6.7430.080	Interchangeable probe as an assembly
8.921.8004EN	Manual for NIRS XDS SmartProbe Analyzer Operation Manual
	Requires Vision Air software (select one of the following versions)
6.6072.208	Vision Air 2.0 Complete
6.6072.207	Vision Air 2.0 Network Complete
6.6072.209	Vision Air 2.0 Pharma Complete
6.6072.210	Vision Air 2.0 Pharma Network Complete
6.7450.030	Requires certified standards NIRS 99% reflection standard for lab probes
	Additional required certified standards (select one of the following)
6.7450.000	NIRS reflection standard, set of 2
6.7450.010	NIRS reflection standard, set of 7 (for the regulated environment)

www.metrohm-nirs.com

