

# Axsun™ NIR Analyzer XL Liquid-Transmission Probe for Application Development

## PRODUCT DESCRIPTION



### A Comprehensive Sample-Interface for Use with the Axsun NIR Analyzer XL

The Liquid-Transmission Probe – manufactured for Axsun by a world leader in spectrometer accessories – Specac, features a sample interface that is optimized for NIR spectroscopic liquid-phase analysis. Transmission is used for analysis of clear to opaque fluids, slurries, suspensions, pastes, and films.

The Liquid-Transmission Probe is designed to work with Axsun's IntegraSpec™-powered NIR Analyzer XL. Put the probe and the analyzer together – and you have all you need to run a wide range of liquid-phase samples to develop applications quickly and easily. The combination delivers unparalleled system performance, enabling the applications developer to solve the toughest point-of-use QC and in-line process problems.

Rugged, versatile, and designed for the exacting demands and hostile environments of industrial-process applications, Axsun's leading-edge Integra-Spec micro-spectrometer platform makes real-time, process measurements feasible and affordable. Combined with Axsun's proprietary WARM™ Wavelength/Amplitude Referencing Module, methods developed on the NIR Analyzer can be rapidly transferred to IntegraSpec process spectrometers distributed throughout the process line.

### Product Description

Small, lightweight, and rugged, the Liquid-Transmission Probe is a sampling tool for use with the Axsun NIR Analyzer XL to develop point-of-use QC and process-monitoring applications on the IntegraSpec XL and XLP platforms. It is designed for spectroscopic analysis of liquids. Applications include viscous samples, polyols, and organic solvents. It mates directly to the NIR Analyzer XL's fiber optic cables.

### Rapid Transition to Process Solution

A process-grade Liquid-Transmission Probe is readily available to rapidly transfer application development from laboratory to process. The identical optical configuration is available with process-grade temperature and pressure ratings, materials, seals, and application-specific mechanical dimensions and fittings.



## APPLICATION EXAMPLES

- Point-of-Use Quality Control
- Automated QC/QA of Continuous Processes



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Part No.	Path Length	Probe Length
6015-2110	1 mm	300 mm
6015-2120	2 mm	300 mm
6015-2150	5 mm	300 mm
6015-2115	1 mm	200 mm
6015-2125	2 mm	200 mm
6015-2155	5 mm	200 mm
6015-2117	1 mm	100 mm
6015-2127	2 mm	100 mm
6015-2157	5 mm	100 mm

## General Specifications

Spectral Range	1320 to 1800 nm
Sampling Configuration	Double-pass transmission
Path Lengths	1, 2, or 5 mm
Probe Material	316 Stainless steel
Probe Diameter	6.35 mm
Probe Length	100, 200 or 300 mm
Sample Window	Scratch-resistant sapphire
Window Seal	Brazed
Fittings	316 Stainless Steel
Optical Interface	Excitation: polarization-maintaining fiber, 8 $\mu$ m, FC/APC Collection: multimode fiber, SMA905, 600 $\mu$ m
Temperature/Pressure	200 °C/100 bar
Compatibility	Axsun NIR Analyzer XL

(Specifications are subject to change without notice)



**A X S U N**  
TECHNOLOGIES

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Axsun is ISO 9001:2000 certified

## PRODUCTS FOR APPLICATION DEVELOPMENT



Axsun NIR Analyzer XL



Gas/Liquid Kit



Diffuse Reflectance Probe

For more information  
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