

Customizable Flexible Fiber Optic Raman Probe For Industrial Online Instruments

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: ISO9001
- Model Number: PR100 PR200 PR300
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: International Shipping Package
- Delivery Time: 60-80 WORKING DAYS
- Payment Terms: T/T, Western Union
- Supply Ability: 100PCS/60-80 WORKING DAYS



Product Specification

- Fiber Optic Cable: 1.3 M PVC Jacketed As Standard, 3 M Or 5 M Length Are Optional
- Temperature Range: 0 ~ 100 °C
- Warranty: One Year Warranty
- Accepted Payment Methods: T/T, Paypal, Western Union, L/C, Etc.
- Probe Tube Length: 80 Mm
- Raman Micro-spectroscopy: Can Be Used With A Microscope
- Highlight: Customizable Fiber Optic Raman Probe, Flexible Fiber Optic Raman Probe, Customizable raman spectroscopy probe



More Images



Product Description

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Customizing Raman Probe for Raman Systems Analysis

Designed for high-efficiency light collection, our optical probes thrive in extreme conditions, from cryogenic to high-heat environments. Customize dimensions, materials, and connections to match your system requirements.

The modular flow cell system offers flexible material options and optimized optical alignment for superior performance. Engineered for harsh chemical exposure and high-pressure operation, it features secure sealing and multi-standard interfaces for hassle-free installation.

Product Models and Technical Parameters

	PR100	PR200	PR201	PR202	PR300
	Optical Probe	LAB Immersion Probe	LAB Immersion Probe	LAB Immersion Probe	Industrial Immersion Probe
Probe Tube Material	304 stainless steel	C276 alloy, 304 stainless steel, 316L stainless steel, Monel alloy, or TA2 optional	316L stainless steel, resistant to SIP/CIP sterilization	C276 alloy, 304 stainless steel, 316L stainless steel, Monel alloy, or TA2 optional	
Outer Diameter	10mm	10mm	16mm	12mm	60mm
Probe Tube Length	80mm	350 mm (Support customizing from 100 mm ~ 350 mm)	270 mm (Support customizing from 100 mm ~ 1000 mm)	120 mm (Support customizing from 120mm ~ 320 mm)	1.9 m (Support customizing from 1 m ~ 3 m)
Spectral Range	200 ~ 3900 cm ⁻¹ (532 nm or 785 nm excitation wavelength) 230 ~ 3100 cm ⁻¹ (1064 nm excitation wavelength)				

Sample Type	Any sample type	L (clear liquid) or S (opaque or turbid liquid) or C (slurries or semi-solids)			
Fiber Optic Cable	1.3 m PVC jacketed as standard, 3 m or 5 m length are optional	5 m as standard, 10 m, 50 m or 100 m length are optional; PVC jacket as standard, TPU or silica gel jacket are optional	50 m (Support customizing)		
Temperature Range	0°C ~ 100 °C	-40°C ~ 200 °C	-40 °C ~ 150 °C	-30 °C ~ 200 °C	-60 °C ~ 200 °C
Maximum Pressure	ambient condition	30 MPa	30 MPa	1 MPa	30 MPa
Corrosion Resistance	Not resistant to corrosive liquid	Resistant to strong acid/alkali, hydrofluoric acid (HF), and organic solution	Resistant to strong acid/alkali, hydrofluoric acid (HF), and organic solution	pH range: 1-14	Resistant to strong acid/alkali, hydrofluoric acid (HF), and organic solution
Optical Fiber Configuration	100 µm excitation fiber, 200 µm collection fiber, N.A. 0.22				
Filter Efficiency	OD6, customizing is available				
Connection Interface	FC and SMA				

Technical Highlights

A variety of materials are available as options. Flow cells are suitable for processes under high temperature, high pressure, or with strong acid/alkali, etc.

With different specifications of interface, flow cells can be coupled with pipelines of different specifications.

Special optical design to maximize collection efficiency and Raman intensities.

Good sealing and convenient connection.

Applications

Supporting three laser wavelengths (532 nm, 785 nm, 1064 nm), the PR100 Raman probe is optimized for laboratory-based offline detection of liquids and solids in standard sample chambers. It also enables microscopic Raman analysis when used with a microscope. For dynamic applications, it can be linked to flow cells or side-view reactors, providing real-time insights into chemical processes.

The PR200/PR201/PR202 probe family delivers precise in-situ monitoring for small-scale chemical reactions. These immersion units install directly into reaction vessels, with an advanced version specifically engineered to handle suspended solutions. Various material options provide exceptional performance under demanding conditions. The series includes models with different interface sizes: compact PR200 and medium-sized PR201. Particularly noteworthy is the PR202, designed for bio-fermentation monitoring with its high-temperature sterilizable, detachable probe assembly featuring a PG13.5 interface.

The PR300 series represents a reliable solution for industrial process monitoring, featuring exceptional resistance to extreme thermal and mechanical stresses. Its innovative design preserves optical system functionality while withstanding corrosive media. The flanged mounting system ensures stable installation in reaction kettles, with multiple sizing options available to match different vessel specifications and monitoring requirements.

Support and Services

Assistance with product installation, setup, and calibration

Troubleshooting and diagnosis of any issues or errors

Regular maintenance and cleaning recommendations

Access to software updates and upgrades

Product training and education

Technical consultation with experienced support staff

Frequently Asked Questions

Q: What is the minimum order quantity for the JINSP Raman Probe?

A: The minimum order quantity for the JINSP Raman Probe is 1PC.

Q: What is the price of the JINSP Raman Probe?

A: The price of the JINSP Raman Probe is negotiable.

Q: What payment terms are accepted for the JINSP Raman Probe?

A: The accepted payment terms for the JINSP are T/T and Western Union.

Q: What is the delivery time for the JINSP Raman Probe?

A: The delivery time for the JINSP Raman Probe is 40-70 working days.

Q: Where is the JINSP Raman Probe manufactured?

A: All Raman Probe is designed and manufactured in China.



JINSP

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