

## Flexible PR100 raman fiber optic probe for with Microscope for Micro-Spectroscopy

Our Product Introduction

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### Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- 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 per 60-80 working days



### Product Specification

- Probe Tube Material: See Item Table
- Outer Diameter: 10 Mm
- Probe Tube Length: 80 Mm
- Fiber Optic Cable: 1.3 M PVC Jacketed As Standard, 3 M Or 5 M Length Are Optional
- Highlight: **PR100 raman fiber optic probe,  
Flexible raman fiber optic probe,  
Flexible raman fiber probe**

## Product Description

# Flexible PR100 Raman Fiber Optic Probe with Microscope for Micro-Spectroscopy

## Product Specifications

Attribute	Value
Probe tube material	See item table
Outer diameter	10 mm
Probe tube length	80 mm
Fiber optic cable	1.3 m PVC jacketed as standard, 3 m or 5 m length are optional

## Customizing Raman Probe for Raman Systems Analysis

Our optical probe delivers exceptional performance with a specialized optical design for high collection efficiency, ensuring precise measurements even in challenging conditions. Built to endure extreme temperatures, high pressure, and corrosive environments, it is ideal for demanding industrial applications. Customizable in interface, length, and material, it adapts seamlessly to your monitoring needs.

Paired with our versatile flow cell, which supports multiple materials and optimized optical paths, this system guarantees superior signal capture. Compatible with various pipeline interfaces, it excels in high-temperature, high-pressure, and corrosive systems, offering reliable sealing and easy integration.

## Product Models and 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
Support customizing 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 <sup>-1</sup> (532 nm or 785 nm excitation wavelength) 230 ~ 3100 cm <sup>-1</sup> (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 $\mu$ m excitation fiber, 200 $\mu$ m 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

The PR100 Raman probe is a compact, lightweight solution for offline laboratory analysis, supporting 532 nm, 785 nm, and 1064 nm excitation wavelengths. Ideal for liquid and solid sample measurements, it integrates seamlessly with sample chambers or microscopes for Raman micro-spectroscopy. Additionally, it can be paired with flow cells and side-view reactors for real-time reaction monitoring, making it a flexible tool for both routine lab work and process control.



The PR200/PR201/PR202 series offers versatile in-situ monitoring solutions for small-scale laboratory reactions. These immersion probes can be directly inserted into reaction vessels, providing real-time process analysis. A specialized design variant minimizes interference when monitoring stirred or suspended solutions. With multiple material options available, these probes excel in extreme conditions and challenging sampling scenarios. The PR200 features compact interfaces, while PR201 accommodates medium-sized connections. The PR202 model is particularly valuable for bio-fermentation applications, featuring a detachable probe section for sterilization (PG13.5 interface).

The PR300 series delivers robust performance in demanding industrial settings, engineered to operate reliably under extreme temperature and pressure conditions. Featuring a protective design that safeguards optical components, these probes utilize a flanged connection system ideal for reactor vessel monitoring. Their corrosion-resistant construction meets the stringent requirements of challenging production environments, with customizable flange dimensions to suit specific installation needs.



## 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.



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