

Industrial Measurement 10Mm Raman Probe For Continuous Flow Reaction Systems

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: ISO9001
- Model Number: PR100
- 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

- Flow Cell Compatibility: Compatible With The FC100/FC200 Flow Cell
- Compact And Lightweight: Suitable For Routine Measurements Of Liquids And Solids In Conjunction With A Sample Chamber
- Excitation Wavelengths: 532 Nm, 785 Nm, And 1064 Nm
- Temperature Range: 0 ~ 100 °C
- Outer Diameter: 10 Mm
- Accepted Payment Methods: T/T, Paypal, Western Union, L/C, Etc.
- Highlight: **Industrial Measurement Raman Probe, 10Mm Raman Probe, Industrial raman fiber probe**



More Images



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Customizing Raman Probe for Raman Systems Analysis

Compatible testing accessories for liquid online Raman analyzers and benchtop Raman spectrometers.

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)			

	PR100	PR200	PR201	PR202	PR300
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℃ ~ 100 ℃	-40℃ ~ 200 ℃	-40 ℃ ~ 150 ℃	-30 ℃ ~ 200 ℃	-60 ℃ ~ 200 ℃
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			
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

High collection efficiency: special optical design

Withstands high and low temperatures, high-pressure, harsh and extreme reaction conditions

Flexible customization: The interface, length, and material can be customized

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.



About JINSP Company

JINSP Company Limited has won the National Science and Technology Commission's Scientific and Technological Achievement Appraisal Certificate and the China Patent Excellence Award, and related products have won authoritative awards such as the Geneva International Invention Award, the Beijing New Technology and New Product Certificate, and the "Innovation Achievement Award" of the Zhu Liangyi Analytical Instrument Innovation Award.

In addition, JINSP participated in the drafting of several national and international standards, including participating in the drafting of an international standard as the only participating unit in China IEC 63085 International Standard: System of spectral identification of liquids in transparent or semitransparent containers; Drafting of two national standards: GB/T 41086-2021 "General Technical Requirements for Safety Inspection Equipment for Hazardous Chemicals Based on Raman Spectroscopy", GB/T 40219-2021 "General Specification for Raman Spectrometer".

Frequently Asked Questions

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

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

What is the price of the JINSP Raman Probe?

The price of the JINSP Raman Probe is negotiable.

What payment terms are accepted for the JINSP Raman Probe?

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

What is the delivery time for the JINSP Raman Probe?

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

Where is the JINSP Raman Probe manufactured?

All Raman Probe is designed and manufactured in China.



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