

Long Raman Probe

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ATR20108

Features:

- Raman probe length up to 5 meters Auto-Switch on four channels
- Slim length for easy to operate
- OD > 8
- Raman probe of 785, 1064, 532, 830, 473nm
- Highly resistant to corrosion of acidic

and alkaline, optional stainless steel 316L, Hastelloy alloy.

 Resist to high temperature up to 300°C (ATR20108HT)

Application:

- Raman spectrometer
- In process reaction monitor
- Liquid materials dip on the bottom container

Description:

ATR20108 is the latest long Raman probe designed by Optosky. It has a long arm of up to 5 meters, which can easily measure samples at the bottom of the reactor with a depth of 5 meters, which cannot be achieved in traditional Raman spectroscopy. This long arm Raman probe built-in high efficient optical path can resist Rayleigh scattering with OD>8.

It adopts the special optical path design of the patent technology of Optosky, which avoids the shortcomings of low optical efficiency of the traditional long rod probe and high requirements for the application occasions. ATR20108 is configured to ATR7010 in-situ Raman spectrometer, especially fit to any in process monitor.



Figure 1 Outline drawing of ATR20108

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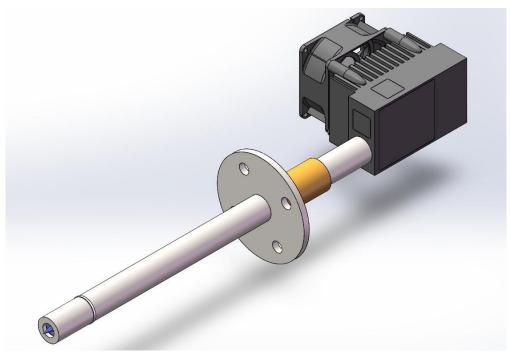


Fig 2 ATR20108HT

1. Performance

Items	Description	Remarks
Working Distance	$3.5 \pm 0.5 \text{ mm}$	
Probe Length	25 cm	Customized length
Probe arm diameter	12.5mm	
Max Length	5m	Max Length up to 5m
Rayleigh scattering	OD>8	
Raman signal fiber	200/220µm Multi-mode optical	Fiber coupling
	SMA905 port	
Laser fiber	105/ 125µm Multi-mode fibers	Fiber coupling
	FC/PC port	
Fiber Length	1.5m	Customized , Maximum up to100m



2. ATR20108 wavelength list and selection guide

Model	Adapted Raman excitation wavelength	
ATR20108-785	For 785 nm Raman Spectrometer	
ATR20108-1064	For 1064 nm Raman Spectrometer	
ATR20108-532	For 532 nm Raman Spectrometer	
ATR20108-830	For 830 nm Raman Spectrometer	
ATR20108-638	For 638 nm Raman Spectrometer	

The full name of the actual ordered model is: ATR20108HT-785, a high temperature resistant long rod Raman probe with a wavelength of 785nm.

3. ATR20108 and ATR20108HT physical picture

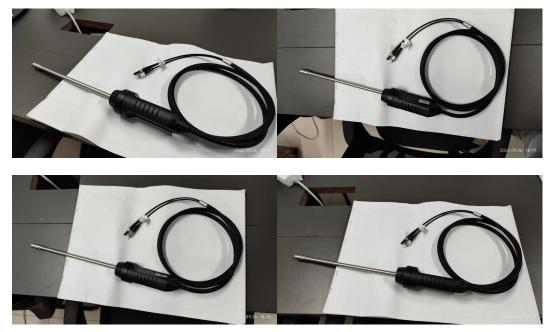


Fig 3 ATR20108 physical map

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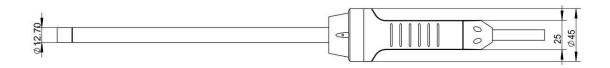
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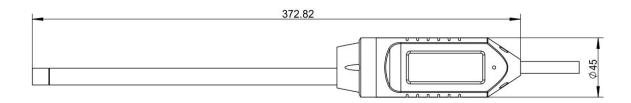




Fig 4 ATR20108HT physical map

5.ATR20108 Dimensions

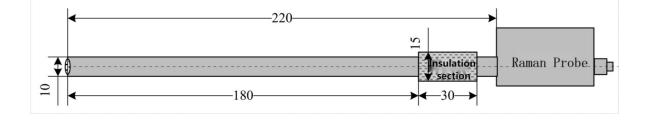




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6.ATR20108 Order Guide

Models	Raman Wavelength
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ATR20108- 1064	For 1064nm Raman Spectrometer
ATR20108-532	For 532nm Raman Spectrometer
ATR20108-830	For 830nm Raman Spectrometer
ATR20108-638	For 638nm Raman Spectrometer