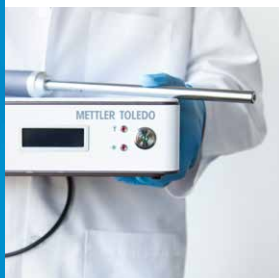


## Expand Process Understanding with *In Situ* Raman Spectroscopy



### Compact Performance

ReactRaman combines best in class performance with a flexible design. The spectrometer is small, light, and thermally stable delivering outstanding results wherever it's needed - on the bench, in the fume hood, or moved to the lab next door.



### Fast, Accurate Results

Optimized for *in situ* monitoring, ReactRaman delivers precise and sensitive spectra that can be easily converted to results with One Click Analytics™. With integrated correlation tables, users can accurately profile reactions, link them directly to chemistry, and obtain the reaction understanding they need.



### Integrated Platform

ReactRaman is part of an integrated family of products, which includes ReactIR™ and EasyMax®. Designed specifically for chemical and process development, these tools are combined across the powerful iC software platform to provide unparalleled process understanding.



### Shared Expertise

ReactRaman with iC Raman 7 was designed by spectroscopy experts to make it simple for scientists to acquire high-quality data and meaningful results. One global service and support team is committed to ensuring scientists can solve challenging chemistry problems using this reliable and high-performance instrument.



### ReactRaman™

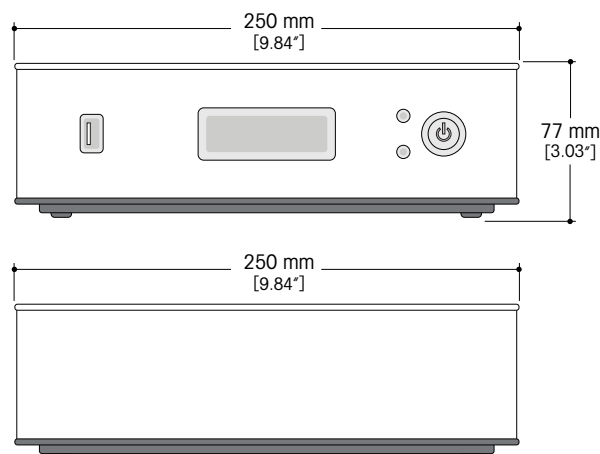
ReactRaman is a probe-based, Raman spectroscopy instrument that can monitor crystallization processes, and reveal reaction mechanisms and kinetics in single or multiphase systems. A compact base unit with a high-performance spectrometer and sampling technology is coupled with the next generation iC Raman™ 7 software. This powerful combination means that accurate results can be obtained and converted quickly into the evidence scientists need to make informed decisions.

# Expand Process Understanding with *In Situ* Raman Spectroscopy

## Technical Data: Base Unit




<b>Optical Range</b>	100 to 3200 cm <sup>-1</sup>
<b>Excitation Wavelength</b>	785 nm
<b>Excitation Power</b>	Max: 400 mW Typical: <250mW
<b>Detector</b>	2-stage TE Cooled CCD
<b>Fiber Connections</b>	FC/PC (both excitation and collection)
<b>Base Unit Temperature Range</b>	5 °C to 35 °C
<b>Laser Classification</b>	Class IIIB laser. Compliant with 21 CFR 1040.10 and 1040.11
<b>Power</b>	100-240 VAC, 50/60Hz, 1.5A
<b>Probe Technology</b>	Fiber BallProbe®

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## Technical Data: Sampling Technology

Sampling technology is provided with the base unit and available in two configurations: fixed or interchangeable. An additional flowcell accessory is available for the interchangeable Fiber BallProbe.

	Fixed	Interchangeable	
			
	<b>1/2" Fiber BallProbe</b>	<b>3/8" Fiber BallProbe</b>	<b>Flow Cell Accessory</b>
<b>Probe Wetted Materials</b>	C-276, Sapphire, Gold	C-276, Sapphire, Gold	C-22, Sapphire, Kalrez® or Gold Seal
<b>Probe Wetted Length</b>	260 mm [10.25 in]	248 mm [9.75 in]	N/A
<b>Probe Diameter</b>	12.7 mm [0.5 in]	9.5 mm [0.375 in]	Tube Fitting: 0.125 in
<b>Probe Temperature Range</b>	-100 °C to 300 °C	-100 °C to 300 °C	Kalrez: -100 °C to 250 °C; Gold: -100 °C to 300 °C
<b>Probe Pressure Rating</b>	413 barg [6,000 psig]	413 barg [6,000 psig]	Kalrez: 34 barg [500 psig]; Gold: 170 barg [2,500 psig]
<b>Probe Fiber Length</b>	1.7 m [5.6 ff]	1.7 m [5.6 ff]	N/A

[www.mt.com/ReactRaman](http://www.mt.com/ReactRaman)

For more information

### METTLER TOLEDO Group

Automated Reactors and *In Situ* Analysis  
Local contact: [www.mt.com/contacts](http://www.mt.com/contacts)

Subject to technical changes

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