



MARQMETRIX®

MEASUREMENT MADE SIMPLE

CONTACT US

## CONTACTFREE HV PROBE (100mm)

A powerful probe for in-motion sampling

### SUPERIOR SIGNAL FOR FAST DATA ACQUISITION

The MarqMetrix® ContactFree HV (High-Volume) Probe is our affordable, non-contact solution for demanding biopharma, pharma, food and beverage, and hazardous chemical applications that require the testing of very heterogeneous samples or large numbers of moving samples.

The ContactFree HV Probe's long working distance (100mm) can rapidly analyze in-motion samples on conveyor belts or rotating drums. The probe is also effective for use through barriers such as windows, vials, and bags. Analysis is done without ever coming into contact with the sample.

There is no need to sacrifice range to achieve large volume Raman sampling: when coupled to a MarqMetrix All-In-One Process Raman System, the ContactFree HV Probe offers a full spectral range of 100 -3250cm<sup>-1</sup>. Accurate and reproducible analysis results in better real-time decision-making and improved process control.

### INCREASE YOUR SAMPLING AREA

A large beam spot (3.5mm) increases the sampling area, resulting in an averaging effect when used on heterogeneous and moving samples. In addition to a large spot size, this probe has a large depth of field, that provides effective measurement of samples of variable size and/or surface thickness.

The simplicity of use allows  
non-specialists to collect  
high-quality data



### FEATURES & BENEFITS

- Non-contact analysis of:
  - Samples in motion
  - Samples with variable surface relief
  - Samples with uneven packaging (e.g. pellets)
- 100mm working distance for measurement through windows, vials, and bags
- Large sampling area (3.5mm)

### APPLICATIONS

- Biopharmaceuticals manufacturing
- Pharmaceuticals manufacturing
- Polymers and plastics processing
- Food and beverage processing
- Hazardous chemical applications



3265 Sunset Lane, Hatboro, PA 19040  
[www.sentinelprocess.com](http://www.sentinelprocess.com)  
P: 800.345.FLOW F: 888.329.9669

The power of Raman, the simplicity of MarqMetrix

Visit [MarqMetrix.com](http://MarqMetrix.com)



## CONTACTFREE HV PROBE

A powerful probe for in-motion sampling



### ADDITIONAL FEATURES

The probe is quick and easy to swap when used with the MarqMetrix InterXc fiber head.

When combined with the MarqMetrix All-In-One, the large area Raman probe offers higher performance and full spectral range with accurate, precise and reproducible results.

### SPECIFICATIONS:

#### Specifications

<b>Standard probe length</b>	3.0in. (76.2mm)
<b>Clear aperture (max. laser beam waist)</b>	0.275in. (7.1mm)
<b>Sample working distance</b>	100mm (10cm)
<b>Continuous operating temperature range</b>	-20 to 100°C
<b>Effective spectral range</b>	100-3250cm <sup>-1</sup>
<b>Beam spot size</b>	3.5mm
<b>Compatible laser wavelength</b>	500-1100nm

#### Materials of Construction

<b>Probe dimensions</b>	0.56in. (14.2mm) OD Stainless Steel
<b>Optics</b>	12.5mm diameter optical glass
<b>Sealing materials</b>	High temperature composite adhesive

#### Operating Conditions

ContactFree HV Probe is intended for use in non-contact sampling, but will withstand intermittent immersion in mild chemical solutions



High performance optic allows analysis through packaging



#### Optical Properties

3.5 mm large beam diameter focus; 100mm working distance

Inquire for custom working distance ContactFree probes

#### Related Products

**ContactFree Probe (8mm)** - designed for non-contact sampling

**Performance BallProbe®** - designed to withstand moderate chemical environments in laboratory and industrial settings

MARQMETRIX®



3265 Sunset Lane, Hatboro, PA 19040  
[www.sentinelprocess.com](http://www.sentinelprocess.com)  
P: 800.345.FLOW F: 888.329.9669

U.S. Patent No. 6,977,729 BS

Manufactured in Seattle, WA in an ISO 9001:2015 certified facility.