

THE FIBER BALLPROBE

with TouchRaman immersion technology

Specifications

Excitation Fiber, Connector	100µm Low-OH, FC/PC
Collection Fiber, Connector	200µm Low-OH, FC/PC
Fiber Head Material	Anodized Aluminum
Sample Working Distance	TouchRaman (sample contacts BallProbe lens)
Compatible Laser Wavelengths	532nm or 785nm

BallProbe Immersion Optic Models

Performance BallProbe - 0.5 in. (0.5 in. OD, 8.5 in. length)	Stainless Steel 316, 8mm spherical optic, epoxy seal
Process BallProbe - 0.5 in. (0.5 in. OD, 11 in. length)	Hastelloy C-276, 6mm spherical optic, gold seal
Process BallProbe - 0.25 in. (0.25 in. OD, 6 in. length)	Hastelloy C-276, 6mm spherical optic, epoxy seal
Process BallProbe - 0.125 in. (0.125 in. OD, 2 in. length)	Hastelloy C-276, 3mm spherical optic, epoxy seal
Raman FlowCell	Hastelloy C-22, 6mm spherical optic, perfluorelastomer (Kalrez) or gold seal
BioReactor BallProbe	Stainless Steel 316L, 12mm dia, 220mm or 120mm immersion length, Pg13.5 fitting
Custom Options Available	Contact MarqMetrix

The MarqMetrix® Fiber BallProbe®

is a complete Raman sampling solution, the link between your Raman analytical system and your sample. Our patented BallProbe technology at the sample interface provides the simplest and most reliable path to making accurate and repeatable Raman measurements.



The MarqMetrix Fiber BallProbe consists of two parts: the fiber head and the BallProbe. The fiber head integrates the fiber optics, Raman filters and optical components into a compact ergonomic design. The BallProbe is the sample interface, a patented optical system featuring a high-purity sapphire spherical lens that enables TouchRaman®. Simply touching the BallProbe to the sample yields highly reproducible sampling of liquids, solids, slurries, powders and heterogeneous mixtures. The BallProbe is available in a variety of material and diameter configurations to meet the most demanding sampling requirements.

Greatly reduced sampling variation and remarkable ease-of-use in an elegant and simple design.

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The Fiber BallProbe is optimized for use with the MarqMetrix Raman All-In-One, but can be fiber-optimized for use with most fiber coupled Raman systems. The MarqMetrix Fiber BallProbe comes standard in a “Fixed” configuration, where the BallProbe is permanently attached to the fiber-optic interface, but can be upgraded to the “Interchangeable” option. The Interchangeable configuration enables the user to switch BallProbes, allowing the user to choose the optimal BallProbe for the application, or support multiple points of measurement.

The simplicity of use allows non-specialists to collect high-quality data and eliminates user-to-user variation.

Related Products

Performance BallProbe – 0.5 in. diameter, our standard BallProbe, for moderate or intermittently-harsh process or laboratory applications

Process BallProbe – 0.5 in. diameter, our most robust BallProbe, for demanding process or laboratory applications

BallProbe – 0.25 in. diameter, designed for moderate process or laboratory applications where small diameter access is required

BallProbe – 0.125 in. diameter, our smallest diameter probe, designed for small-volume (uL) measurements in microwells or conical vials

Raman FlowCell – with BallProbe technology, specifically designed for integration into continuous flow chemistry and reaction monitoring applications.

BioReactor BallProbe – specifically designed for bioprocess applications, sterilizable via autoclave/CIP/SIP, compatible with standard Pg13.5 ports.



Fixed with Performance BallProbe



Fiber BallProbe with All-In-One System

Interchangeable with Process BallProbe - 0.125 in



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