

THE FIBER BALLPROBE®

with TouchRaman™ immersion technology

MARQMETRIX

MEASUREMENT WITHOUT LIMITS
MAKE FASTER, MORE INFORMED DECISIONS

Specifications

Excitation Connector	Female FC/PC for multimode fibers
Collection Connector	Female SMA for multimode fibers
Fiber Head Material	Anodized Aluminum
Sample Working Distance	TouchRaman (sample contacts probe lens) to 200-500 nm standoff, depending on size of spherical optic
Compatible Laser Wavelengths	Choice of: 532, 785 or 1064 nm

BallProbe® Immersion Optic Models

1/2" Process Elite BallProbe® (1/2" OD, 6" or 11" length)	Hastelloy C-276, 6mm spherical optic, gold seal
1/4" Process Elite BallProbe® (1/4" OD, 4" or 6" length)	Hastelloy C-276, 6mm spherical optic, epoxy seal
1/8" Process Elite BallProbe® (1/8" OD, 2" or 4" length)	Hastelloy C-276, 3mm spherical optic, epoxy seal
1/2" Performance BallProbe® (1/2" OD, 6" or 11" length)	Stainless Steel 316, 8mm spherical optic, epoxy seal
Custom Options Available	Contact MarqMetrix

The MarqMetrix® Fiber BallProbe® is a fiber-coupled TouchRaman™ immersion contact probe utilizing a spherical sapphire ball lens interface. The fiber interface, patented optics, exclusively sourced, high-grade sapphire lens and precision manufacturing allow for greatly reduced sampling variation, extreme durability and remarkable ease-of-use in an elegant and simple design.



The Fiber BallProbe® is designed for use with a wide variety of spectrometers and laser sources, connected via standard multimode fiber patch cables. The Fiber BallProbe® can be manufactured with any of the MarqMetrix® Process Elite Ball-Probes®, and can be customized as well. The short focal length enabled by the spherical optic allows for TouchRaman™—where users simply touch the probe to the sample—yielding highly reproducible sampling of liquids, solids, slurries, powders and heterogeneous mixtures. The simplicity of use allows non-specialists to collect high-quality data and eliminates user-to-user variation.

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



For more information call:

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The immersion interface of the BallProbe® accommodates a high-precision UV-grade sapphire ball lens and an internal focusing lens. The internal focusing lens improves performance and acts as additional protection against upstream chemical ingress. Depending on environmental, chemical or temperature needs, the Fiber BallProbe® is offered with a high-performance Hastelloy or stainless steel housing and affixed with a gold-based compression seal or proprietary epoxy.



The Fiber BallProbe® is intended for laboratory and light-process applications.

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



BallProbe® Immersion Optic Operating Conditions

Suitable for continuous exposure to dilute and concentrated acids (hot & cold), bases and most organic solvents including ethanol, THF, ethyl acetate, acetone, DCM, toluene, pentane and acetonitrile

Avoid prolonged exposure to aqua regia

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