Portable Particle Characterization

For Real-Time Monitoring



Ultimate in Laboratory Flexibility

The versatile FBRM® S400A is ideal for use in all types of laboratory vessels, including the METTLER TOLEDO EasyMax™ automated laboratory reactor. Its portability adds value for chemists working in multiple laboratories, or for the R&D team sharing equipment.



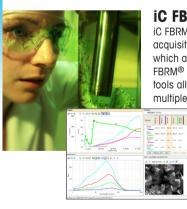
Integrated Probe and Computer

The S400A comes with one 9.5mm or one 14mm plug-in (Pl) probe. The controller connects via a single cable to a host computer running iC FBRM™ software. Its design allows substitution of a different-length probe if desired.



Fixed Beaker Stand

The S400A comes with a fixed beaker stand and mixer for instrument calibration and offline sample analysis. The fixed beaker stand holds a sample of material in a reproducible setup for repeatable measurements.



iC FBRM™

iC FBRM™ provides powerful data acquisition and interpretation tools which allow users to quickly evaluate FBRM® data. Intuitive report generation tools allow users to combine data from multiple FBRM® experiments with batch

condition data and produce professional reports with a click of the mouse.



FBRM® S400A Technology

FBRM® (Focused Beam Reflectance Measurement) is a real-time quantitative measurement tracking the rate and degree of change to particles, particle structures, and droplets as they actually exist in process. The inline FBRM® measurement enables engineers to quickly link particle system dynamics to process conditions. The portable S400A can be used for sample analysis or can be mounted in a small-scale laboratory vessel for real-time monitoring.



Technical Data

Portable Particle Characterization For Real-Time Monitoring

Probe temperature range

Standard: -20°C to 90°COptional: -90°C to 120°C

Pressure

• Standard: 10bar

• Optional: to most process requirements

Detection range

• 0.5μm to 1000μm

Dimensions

• Probe head: 104mm x 60mm x 32mm

• Probe length: 91 (206)mm overall; 9.5 (14)mm wetled end

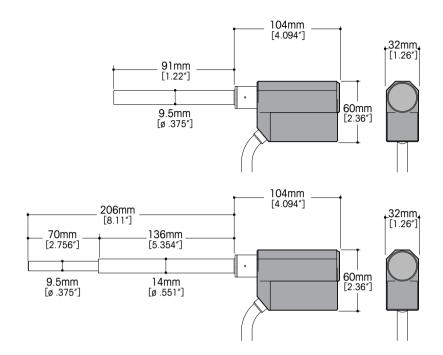
Probe diameter: 9.5mm wetted end

• Conduit diameter: 11.6mm

Conduit length: 3mController case: 280mm x 190mm x 170mm

Materials

Wetted portions of probe: alloy C-22Probe window: synthetic sapphire



This product is covered by one or more of the following patents:

USA 4871251, 5815264, 5619043, 6449042, 6940064

EU 0289200 B2 JAP 2837410, 3207861 FIN 882008A

AU 609394, 724733 CA 1322110, 2285189

Other patents pending



Internet: http://www.mt.com/autochem Worldwide service

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For more information