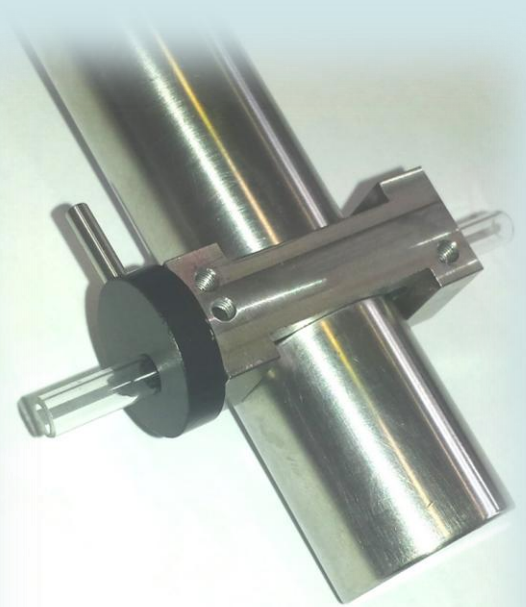




FZ1 liquid-measuring cell

The FZ1 liquid-measuring cell is an accessory part that can be used with all Parsum probes in the IPP 70 and IPP 80 series. This cell makes it possible to measure the particle-size distribution in a fluid flowing through a glass tube. In this way, the probe does not come into contact with the product. The measurement is carried out through the glass tube without contamination. The measurement can be carried out continuously online by extracting the liquid from a process vessel or process line in a bypass flow, and feeding it through the probe's measuring volume. The extracted product can also be diluted with water or other liquids following extraction before passing through the measuring volume. The glass tube in the measuring volume can be adjusted either by eccentric rotation, manually, or using a lever.



Parsum provides you with a complete installation that has been adapted to your specific measuring conditions, together with a sampling system, dilution and pump (if necessary).

➤ Technical details	
Accessories for probe models	IPP 70, 75 and 80
Particle size measurement range	50...>2000 µm
Particle velocity measurement range	0.01 ... approx. 5 m/s
Products	Solid or liquid particles in transparent liquids
Dimensions	Approx. 45×16×40 (with mounting bracket)
Installation	Clamp/screw connection in probe's measuring volume
Measuring tube	Glass, outer diameter = 6 mm, inner diameter = 5 mm, length approx. 70 mm
Tube connection	Hose connection, depressurised
Materials coming into contact with product	Glass (other tube materials possible)
Weight	Approx. 50 g
Options	Pressure-resistant up to 4 bar Larger tube diameter (up to max. inner diameter of 8 mm)

Application example – measuring the particle-size curve during tablet disintegration

This publication describes how the Parsum measurement probe and a liquid-measuring cell can be used to track the disintegration of tablets in water in real time.

Julian Quodbach, Peter Kleinebudde

A new apparatus for real-time assessment of the particle size distribution of disintegrating tablets
Journal of Pharmaceutical Sciences, Vol. 103, 3657–3665 (2014), 2014 Wiley Periodicals, Inc. and the American Pharmacists Association

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