



IPP 75-S inline particle-measuring probe

The new IPP 75 fills the gap in the Parsum GmbH range between the basic model IPP 70-S and the high-end pharma version IPP 80-P. Thanks to the new illumination concept, the IPP 75 can be produced in any length and is therefore the perfect solution for inline particle measurement in large containers and in hard-to-access positions within a process.

It consists of a robust stainless steel-construction with sapphire windows to protect the optics from wear.

Compressed-air-driven accessories, such as dispersers, ensure that the measuring volume and windows are kept permanently free from contamination while also guaranteeing optimal adaptation to process and particle attributes.

The probe is therefore also suitable for use in processes with damp and sticky particles. Using a disperser means that measurements can also be reliably taken in processes with irregular particle movement, such as in fluidised beds, or processes with high loads, such as high-shear processes.

The very simple installation without the need for any samplers, bypasses or similar system parts means that the probe can be easily installed into existing systems or, for example, in pipelines underneath conveyor belts, rotary airlock valves in mixers and on screening systems.



> Technical details

Particle size measurement range	50...6000 µm
Particle velocity measurement range	0.01...50 m/s
Particle volume concentration	For particles <1 mm, up to approx. 12 vol.%, for larger particles, up to approx. 30 vol.%
Measuring rate	up to 20,000 particles/s
Products	Powder, pellets, granulates, sprays...
Process temperature/pressure	-20°C to +100°C / <4 bar
Material, in contact with product	stainless steel (L316), sapphire, epoxy resin
Probe tube dimensions (length/diameter)	380 x 25 mm (longer options possible)
Electronics-housing dimensions (width/height/depth)	130 x 120 x 65 mm
Electronics-housing temperature	-10°C to 60°C
Housing protection class	IP65
Light source	Laser (laser class 1)
Power consumption	2 W (typ.)

> Accessories (process interface)

D24 disperser	For high load/high fine content – particles up to <2000 µm, clearance 3.8 mm
D12 disperser	As for D24, but also for larger particles >2000 µm, clearance 7.5 mm
SZ11, SZ20-4 cleaning cells	With low load for cleaning the probe optics without diluting the flow of particles
Compressed-air unit	Compressed-air supply for the probe when using dispersers or cleaning cells

22/05/2018



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Zertifiziert nach ISO 9001:2008

