

PARSUM IPP 75-S

Inline particle measuring probe



The new IPP 75 fills the gap between the basic IPP 70 model and the advanced 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 measurements 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
Measuring rate	Up to several thousand particles per second
Products	Powder, pellets, granulates, sprays...
Process temperature/pressure	-20°C to +100°C / <4bar
Material, in contact with product	Stainless steel (316L), sapphire, epoxy resin
Probe tube dimensions (length x diameter)	380 x 25 mm (longer version options possible)
Electronics - housing dimensions (w/h/d)	130 x 120 x 65 mm
Electronics - housing temperature	- 10°C to 60°C
Housing protection class	IP65
Light source	Laser (laser class 1)
Interfaces	OPC-Server, TCP/IP-Server, 4...20 mA



Accessories (process interface)

D24 inline disperser	For high load/high fine content – particles up to 2000 µm, clearance 3.8 mm
D12 inline disperser	As for D24, but also for particles >2000 µm, clearance 7.5 mm
SZ11, SZ20 - cleaning cells	To keep the probe optics free of contamination without active dilution of the particle flow (assuming a low particle load)
Compressed air unit	Compressed air supply for the probe when using dispersers or cleaning cells