

PARSUM IPP 70-SE

Inline particle measuring probe



As an intrinsically safe probe in combination with a measuring PC, the IPP 70-SE enables the determination of particle size distribution (e.g. Q0, Q3) and their attributes (x10, x50, x90, etc.) even in dense particle streams of explosive processes in zones "0"/"20".

Other technical details and the range of application are comparable to those of the IPP 70-S probe. The same accessories for process adaptation can also be used.

The complete measuring system consists of the IPP 70-SE with accessories for process adaptation, the barrier box for Ex-zone separation and a measuring PC with measuring program. The measurement results can be made available to a higher-level control system via optional interfaces.

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)	280 x 25 mm
Electronics - housing dimensions (w/h/d)	120 x 90 x 60 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
ATEX certificate	IBExU02ATEX1009
Marking of the probe IPP70-SE	II 1/2G Ex ia op is IIB T4 Ga/Gb II 1/2D Ex ia op is IIIC T125°C Da/Db
Marking of the barrier box IPP70-SE-B	II (1)G [Ex ia Ga] IIB II (1)D [Ex ia Da] IIIC



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
VS28 anti-wear guard	Tube sleeve with a reinforced hard-chrome coating with a hardness of 68 - 72 Rockwell

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