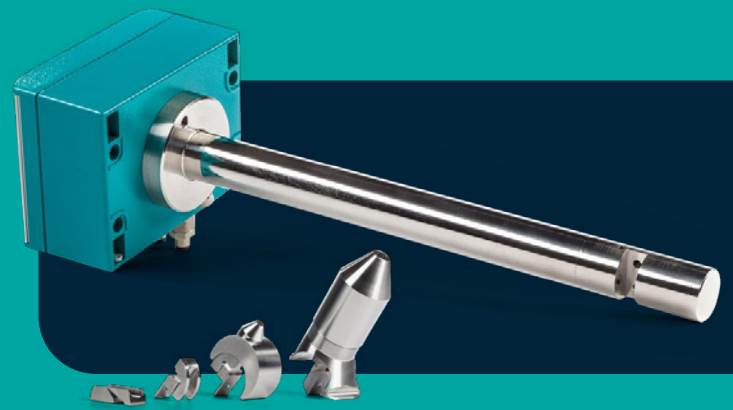


# PARSUM IPP 70-S

## Inline particle measuring probe



When used in combination with a measuring PC including measuring software, the IPP 70-S allows for the optical particle measurement and therefore the determination of the current particle-size distribution (e.g. Q0, Q3) and of the attributes of the distribution (x10, x50, x90, etc.) directly within the 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.

LEDs in the electronics housing and signals to the process control unit provide the user with information regarding the reliable functioning and operating status of the probe.

The distributions calculated and displayed by the measuring PC can be provided to a higher-level control system via optional interfaces.

### Technical details

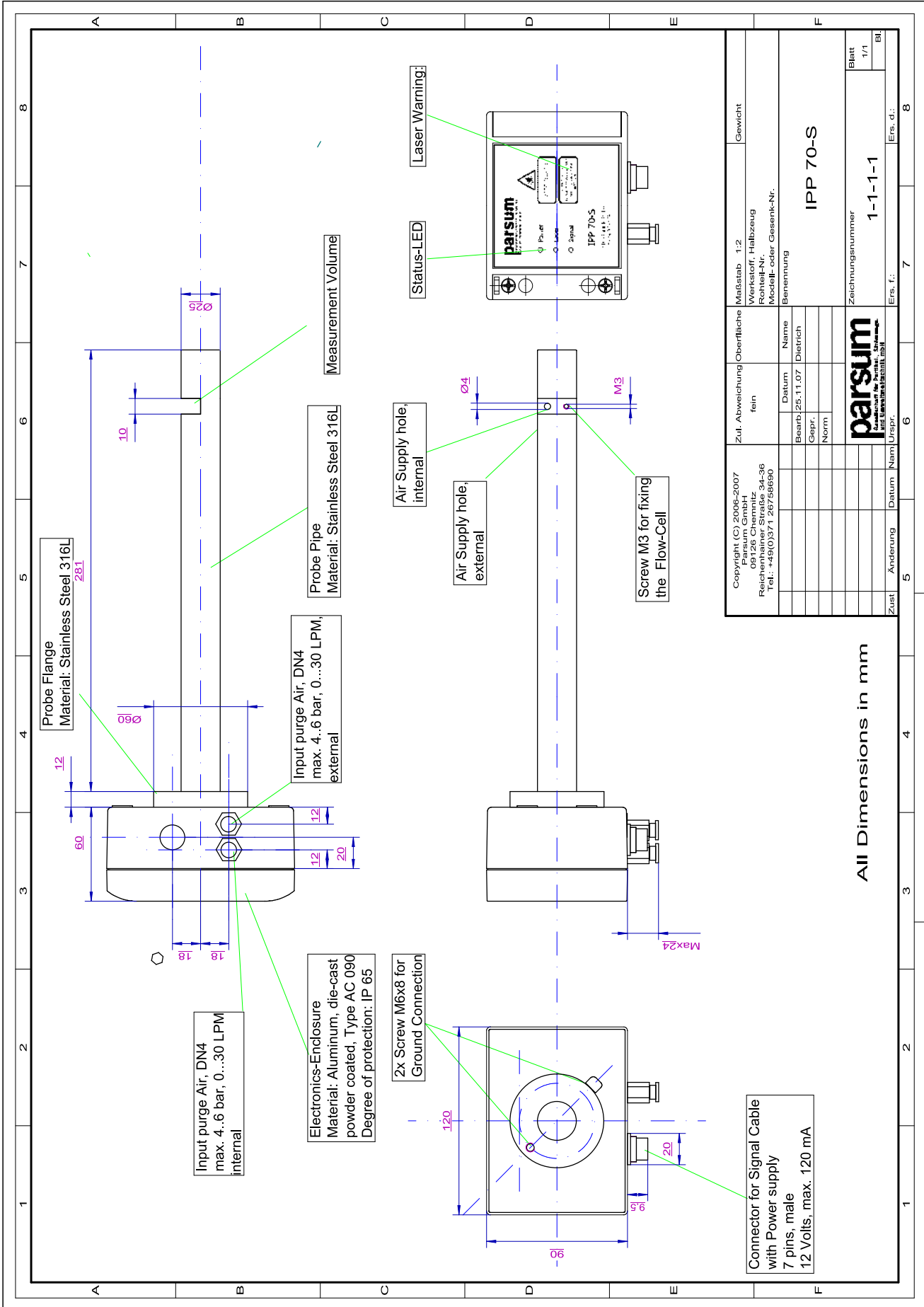
Particle size measurement range	50...6000 µm
Particle velocity measurement range	0.01...50 m/s
Measuring rate	Up to several thousand particles per second
Products	Powder, pellets, granulates, sprays...
Process temperature/pressure	-20°C to +100°C / <4bar
Material, in contact with product	Stainless steel (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



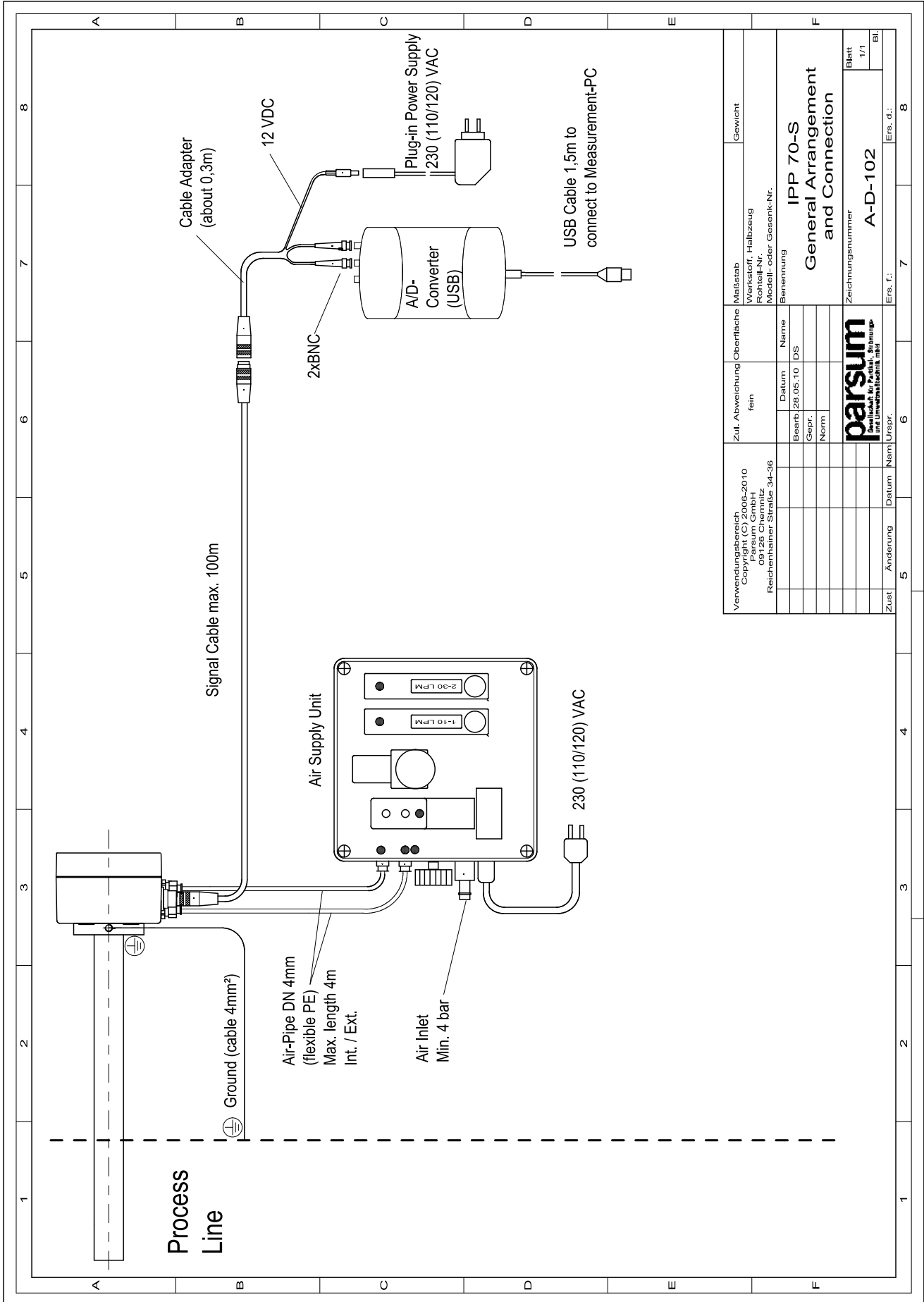
### Accessories (process interface)

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

# IPP 70-S System



# IPP 70-S System



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	Bearb./28.05.10	Datum	Name	
	Gepr.	Norm		
	<b>parsum</b> Gesellschaft für Präzision, Steuerung und Umwelttechnik mbH			<b>IPP 70-S</b> General Arrangement and Connection
Zust.	Änderung	Datum	Nam	Urspr.
			Zeichnungsnummer	Blatt
			A-D-102	1/1
			Ers. f.	Ers. d.
				8