Prager Elektronik
Traunstraße 21, A-2120 Wolkersdorf
T:+43 2245 6725 F:+43 2245 559633
office@prager-elektronik.at
www.prager-elektronik.at

SOPAT
Smart Online Particle Analysis Technology

Checklist *Specifications and requirements* including exemplary description (please complete page 2)

	Requirements	Details
☐	Involved phases	e.g. liquid/liquid, liquid/solid, liquid/gas, gas/solid, liquid/gas/solid, etc…
☐	Target particles	e.g. bubbles, droplets, particles, cells, foam, foreign matter (multiple choices possible)
☐	Dispersed phase volume fraction	e.g. 10 vol.-%, 100 ppmv, etc…
☐	Particle size range	e.g. 1- 1000 µm
☐	Flow conditions and velocity	e.g. stirred tank, pipeline, free-fall, turbulent, laminar, 1 m/s
☐	Measured variable	e.g. Sauter mean diameter, d_{v90}, span, q_0, q_3, Q_0, Q_3, etc…
☐	Measurement frequency	e.g. once a day, every hour, every 10 minutes, every minute
☐	Max. analysis time per measurement	Maximum time allowed analyzing one measurement point? When should the particle size distribution be available to user the latest?
☐	Validation method	if applicable: e.g. comparison with own measurement, Laser diffraction, microscopy, manual measurements, etc…?
☐	Process control	e.g. link to process control system? Online-monitoring?
☐	Control parameters	e.g. stirrer speed, temperature, pressure, volume flow rate, etc…
☐	Process conditions	e.g. temperature, pressure, pH, viscosity, ATEX, explosive atmosphere…
☐	Hazards	e.g. hazardous substances, specific safety requirements
☐	Added value	e.g. control particles size distribution (product quality), reduce off-specification batches, reduce down-times, enhance product quality, etc.

Completed by: _____

Date: _____

Checklist *Specifications and requirements*

	Requirements	Details
☐	Involved phases	
☐	Target particles	
☐	Dispersed phase volume fraction	
☐	Particle size range	
☐	Flow conditions and velocity	
☐	Measured variable	
☐	Measurement frequency	
☐	Max. analysis time per measurement	
☐	Validation method	
☐	Process control	
☐	Control parameters	
☐	Process conditions	
☐	Hazards	
☐	Added value	

Completed by: _____

Date: _____