

QUESTIONNAIRE – SAMPLING SYSTEM

Please complete the form fields and return the questionnaire to biuro@interprocess.pl – we will prepare our quotation on this basis. Any questions: tel. +48 787 783 590.

CONTACT DETAILS

Full name:		Phone number:	
Company:		E-mail address:	
Street and number:		Country:	
Postcode, town:		Date completed:	

ORDER

Number of sampling points:		Required delivery date:	
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MATERIAL

Material name:			
Particle size [mm]:		Bulk density [kg/m ³]:	
Moisture content [%]:		Angle of repose [°]:	
Material temperature [°C]:	☐ 0–40 ☐ other:		
Material properties:	☐ free-flowing ☐ medium-flowing ☐ poor-flowing ☐ dusty ☐ abrasive ☐ friable ☐ sticky ☐ cohesive (caking) ☐ hanging up, bridging ☐ hygroscopic ☐ aeratable (flooding) ☐ toxic ☐ chemically aggressive (corrosive) ☐ intended for food contact / pharmaceutical product		
Particle shape:	☐ powder ☐ granules ☐ crystals ☐ flakes ☐ fibres ☐ tablets / capsules		

REQUIREMENTS

Industry:	☐ chemical / industrial ☐ food ☐ dairy ☐ pharmaceutical ☐ other:
Purpose of sampling:	
Sample type:	☐ grab (spot) ☐ composite (averaged from many increments)
Sample size:	single increment [ml, g]: composite sample [l, kg]:
Sampling frequency:	composite collection period:
Sampling trigger:	☐ manual ☐ time-based ☐ volume-based ☐ event-based (control system signal)

SAMPLING POINT

Sample taken from:	☐ vertical downpipe ☐ inclined chute ☐ vessel / hopper / silo ☐ mixer ☐ screw conveyor ☐ belt conveyor ☐ air slide ☐ pneumatic conveying line ☐ packaging (sacks, big-bags, drums, octabins)
Material movement:	☐ material at rest ☐ slow-moving ☐ free fall ☐ pneumatic conveying
Material flow rate:	[kg/h, t/h]
Pipe / chute:	shape: ☐ round ☐ square ☐ rectangular internal dimensions [mm]: wall thickness [mm]: inclination to horizontal [°]: material: ☐ carbon steel ☐ stainless steel ☐ aluminium ☐ other:
Pneumatic conveying line:	flow direction: ☐ horizontal ☐ vertical up ☐ vertical down ☐ inclined line pressure [bar]: ☐ positive pressure ☐ vacuum ☐ pressure isolation required during sampling
Temperature at sampling point [°C]:	

SAMPLER

Sampler type:	☐ screw (powders, granules < 6 mm, pastes) ☐ piston (fixed volume per stroke) ☐ vacuum with lance (packaging; mobile version) ☐ to be selected by InterProcess
Drive:	☐ manual ☐ pneumatic (4–6 bar) ☐ electric (24 V DC)
Compressed air at sampling point:	☐ no ☐ yes → pressure [bar]:
Sample collection:	☐ bottle / container: ☐ bag ☐ container carousel ☐ other:
Product-contact parts:	☐ stainless steel 1.4404 (AISI 316L) – standard ☐ other:
Requirements:	☐ GMP / FDA design ☐ ATEX ☐ sampler air purge after sampling ☐ tool-free dismantling for cleaning

OPERATING ENVIRONMENT

Ambient temperature [°C]:	☐ 0-40 ☐ other:
Installation site:	☐ indoors ☐ outdoors, under cover ☐ outdoors, uncovered
ATEX – explosion hazard zone:	☐ no ☐ yes → please specify below:
gases, flammable liquid vapours	inside equipment: ☐ 0 ☐ 1 ☐ 2 outside: ☐ 1 ☐ 2
	explosion group and temperature class:
combustible dusts	inside equipment: ☐ 20 ☐ 21 ☐ 22 outside: ☐ 21 ☐ 22
dust parameters	dust explosion class: ☐ St 1 ☐ St 2 ☐ St 3 ☐ conductive dust (IIIC)
	minimum ignition energy [mJ]:
	min. ignition temp. [°C] – dust cloud: 5 mm dust layer:

CONTROL SYSTEM

Operating mode:	☐ automatic ☐ manual (push button at sampler)
Remote sampling start:	☐ no ☐ yes → signal: ☐ voltage V ☐ volt-free contact
Scope of supply:	☐ local control box ☐ integration with customer's control system (PLC)
Supply voltage:	☐ 230 V AC ☐ 24 V DC ☐ other:

INSTALLATION SITE AND ADDITIONAL REMARKS

Description of sampling point and sampler installation site (please attach a sketch or photo):

Additional remarks/requirements (e.g. process description, special requirements, scope of supply, documentation, installation, commissioning):

If possible, please attach drawings, a plant layout or photos of the installation site and the material safety data sheet (SDS).