

QUESTIONNAIRE – VESSEL WEIGHING 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 vessels:		Required delivery date:	
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WEIGHED MATERIAL

Material name:		Density [kg/m ³]:	
Type:	☐ bulk solid ☐ liquid ☐ paste / slurry	material temperature [°C]:	
Properties:	☐ corrosive ☐ dusty ☐ sticky / wall-coating ☐ food contact / pharma		

REQUIREMENTS

Application:	☐ measuring vessel contents (inventory) ☐ balancing and accounting ☐ batch weighing ☐ loss-in-weight feeding ☐ filling control
Installation:	☐ new vessel ☐ existing vessel: ☐ vessel can be lifted and weigh modules fitted ☐ no lifting – strain sensors on supports
Required accuracy:	scale interval [kg]:
Verification (legal-for-trade):	☐ no ☐ yes → accuracy class: ☐ III ☐ IIII

VESSEL AND SUPPORT STRUCTURE

Vessel type:	☐ vessel ☐ silo ☐ hopper / bin ☐ reactor ☐ mixer ☐ vertical ☐ horizontal
cross-section:	☐ round ☐ square ☐ rectangular
Dimensions:	diameter / sides [mm]: height [mm]: capacity [m ³]:
Weights [kg]:	empty vessel with fittings (tare): max. contents (net):
Vessel support:	☐ legs ☐ lugs / side brackets ☐ support ring ☐ suspended (tie rods) number of supports: ☐ 3 ☐ 4 ☐ 6 ☐ 8 support spacing [mm]:
Foundation:	☐ concrete foundation ☐ steel structure ☐ floor slab / platform
Piping and other rigid connections:	☐ none ☐ with flexible bellows ☐ rigid number and diameters of connections:
Dynamic loads:	☐ none ☐ agitator – power [kW]: ☐ vibrators / aeration ☐ impact filling
Vessel operating conditions:	pressure: ☐ atmospheric ☐ overpressure / vacuum [bar]: wall / support temperature [°C]: ☐ heating jacket
Location:	☐ indoors ☐ outdoors (wind load) town:

LOAD CELLS AND WEIGH MODULES

Load cells:	☐ shear beam ☐ compression (column) ☐ strain sensors ☐ to be selected material: ☐ stainless steel ☐ nickel-plated steel protection rating: ☐ IP67 ☐ IP68
Mounting modules:	finish: ☐ painted ☐ galvanised ☐ stainless steel ☐ lift-off protection ☐ bumpers (lateral stops) ☐ check rods
Washdown / harsh conditions:	☐ no ☐ water washdown ☐ high-pressure / steam cleaning ☐ chemicals:
Cable length to terminal [m]:	

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:

WEIGHING ELECTRONICS AND CONTROL

Electronics:	☐ weighing terminal with display ☐ DIN-rail weighing transmitter
	☐ weighing module for customer's PLC (e.g. SIWAREX) ☐ PLC with HMI panel
Terminal mounting:	☐ wall ☐ panel ☐ in control cabinet
Power supply:	☐ 230 V AC ☐ 24 V DC
Functions:	☐ continuous weight display ☐ batching (control of valves, feeders)
	☐ alarm limits ☐ balancing and data logging ☐ remote display
Outputs:	☐ analogue 4-20 mA ☐ relay
Communication:	☐ Modbus TCP ☐ Modbus RTU ☐ EtherNet/IP ☐ PROFIBUS DP
	☐ PROFINET ☐ other:
Calibration:	☐ with test weights ☐ with substitute material ☐ electronic (no loading)
	☐ calibration certificate required

INSTALLATION SITE AND ADDITIONAL REMARKS

Description of vessel and installation site (please attach a drawing of the vessel and support structure):

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).