Ex p Specification sheet

BARTEC

Customer ❶

Company		Phone number	
Name		Cell phone number	
Adress		E-Mail	
Postal code		Contact person	
Sales Representative		Sales company	
Project name		Inquiry number	
Offer / Order	☐ / ☐	Delivery request	

Provided documents (documents for offer / order) ❷

Electrical documentation	☐	Dimension drawing	☐

Additional information (e.g. data sheets, photos):

General Information ❸

Application			
System		Internal installations	
Certification		Equipment category	
Temperature class		Explosion Group	
Gas weight		Installation site	
Ambient temp., minimum	°C	Ambient temp., maximum	°C
Complete power dissipation	W	Highest individual power dissipation	W

Electrical specification ❹

Rated voltage		Rated current	A
Power supply		Frequency	Hz
Fiber optic cable		Rated power Release.	kW
Enable Ex p			
Active inputs		Number of inputs	

Ex p Specification sheet

BARTEC

Cooling / Heating ❺

Cooling		Heating	
Internal temperature, minimum	°C	Internal temperature maximum	°C

Ex p specification ❻

Ex p control unit		Ex p Protection level	
Power Supply Ex p Steuergerät		Purge gas valve	
Mounting		Mounting side	
Purge gas		Display	

Specification enclosure ❼

Width	mm	IP Protection degree	
Height	mm	Installation	
Depth	mm	Substructure	
Material		Height of the substructure	
Execution doors		Number of doors, max. width 1200	
Door hinges		Flange plate	
Color		Seawater resistant	☐ Yes ☐ No
Window	mm	Closer	
Crane eylets	☐ Yes ☐ No		
Canopy / Cover		Overhang	mm
19“-Rack Version		19“-Rack height	U
Protective door		Protective door size	mm

HMI ❽

Listed HMI´s	
Not listed HMI	
Used interface	

Ex p Specification sheet

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Control elements ❾

QTY	ComEx Module Engraving text

Cable glands ❿

QTY	Size	Cable size	Material	Variant	Ex i
					☐
					☐
					☐
					☐
					☐
					☐
					☐
					☐

Additional Information:

Ex p Specification sheet

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Filling in the form

The Ex p specification sheet is used to compile all the data required to process an offer or order. This serves as a master to all other provided data, which are e.g. based on a non-Ex solution or contain deviating data.

Section	Help	
❶	**Customer** To be filled in with the contact information to which the prepared offer should be sent or to which the offer should be available for technical queries. Furthermore, the data of the project are to be given, so that a communication as simple as possible can be generated on the basis of e.g. project name or inquiry number.	
❷	**Provided documents** Here is a list of the documents provided with the request, which are used for detailed processing of the request. Additional documents can be listed under additional documents, e.g. an executed power loss calculation, parts lists, data sheets, pictures	
❸	**General Information** Information on the place of installation and design	
	Application	Bereich auswählen, der auf die zu schützende Applikation passt.Select the area that fits the application to be protected.
	System	Ex p Control Unit = Inquiry / design of an Ex p control system Empty cabinet Ex p, without cert. = Request for an Ex p empty cabinet with or without associated Ex p system. A certification of the completed Ex p control cabinet is not available Certified solution APC = APEX Pressurized Cabinet consisting of control cabinet, protected customer application, Ex p control incl. certification zone 1 / 21 Zcertified solution SPC = SILAS Pressurized Cabinet consisting of control cabinet, protected customer application, Ex p control incl. certification Zone 2 / 22
	Internal installations	Supplied by BARTEC = interne geschützte Komponenten sind im Lieferumfang BARTEC Components provided = interne Komponenten werden dem Auftrag beigestellt Mounting plate wired supplied = based on a mounting plate supplied by BARTEC, the order is accompanied by a completely wired protected application. ***Note:*** If a provided mounting plate is selected, it is possible that individual components are subsequently modified by BARTEC due to standard specifications.
	Certification	ATEX = Ex p equipment (APC/SPC) should receive a total ATEX marking IECEx = Ex p equipment (APC/SPC) should receive a total IECEx marking ATEX/IECEx = Ex p equipment (APC/SPC) should have a double marking
	Equipment category	Selection of the device category / Ex area of the installation site.
	Temperature class	Desired temperature marking of the Ex p equipment
	Explosionsgruppe	Selection of the explosion group by gas or dust
	Gas weight	Weighting of the explosive gas occurring in the environment in relation to air e.g. hydrogen = lighter than air or propane = heavier than air
	Installation site	Indoor = Installation inside, e.g. production hall Outdoor = Installation in external areas, e.g. open spaces Clean room = Installation site is subject to clean room requirements Offshore = Installation site is in seawater environment
	Ambient temperature	Information on the ambient temperature of the installation site. This information is used to check the individual components with regard to operating temperature and power dissipation.

	Complete power dissipation	Information on the complete power loss
	Highest individual power loss	Information on the component with the highest power loss
❹	**Electrical specification**	
	Rated voltage	Information on the supply voltage of the Ex p equipment
	Rated current	Information on the maximum current consumption of the Ex p equipment
	Power supply	Information on the mains connection
	Frequency	Specification of the mains frequencyAre fiber optic cables routed into the Ex p equipment from outside?
	Fiber optic cable	Are fiber optic cables routed into the Ex p equipment from outside?
	Enable Ex p	Information about the intended solution of releasing the protected application. Zone 1/21 = Automated enable Zone 2/22 = Automated enable or manual enable via main switch
	Rated power enable contactor	Required rated power of the enabling contactor
	Active inputs	Are active signals led from outside into the Ex p equipment, which also carry voltage when the application is deactivated?
	Number of inputs	Indicates how many active signals are fed into the Ex p equipment.
❺	**Cooling / Heating**	
	Cooling	Selection for the desired design Cooling
	Heating	Selection for the desired design Heating
	Internal temp., minimum	Indication of the minimum internal temperature
	Internal temp., maximum	Indicatrion of the maximum internal temperature
❻	**Ex p specification**	
	Ex p Conrol Unit	Selection of the Ex p control unit
	Ex p Protection level	Selection of the protection level. pxb = Ex p equipment for use in zone 1 with internal non-Ex components pyb = Ex p equipment for use in zone 1 with internal components that have at least one Zone 2 certification. pzc = Ex p equipment for use in zone 2 with internal non-Ex components
	Supply Ex p control unit	Selection of supply voltage Ex p control unit
	Purge gas valve	Selection of the purge gas valve Digital = Purge gas valve with manual air leakage compensation Proportional = Purge gas valve with controlled air leakage compensation
	Mounting	Selection of the mounting location for the Ex p control unit Internal = The Ex p control unit is mounted inside the Ex p room External = The Ex p control unit is mounted outside on the Ex p equipment Separate = The Ex p control unit is mounted separately from the Ex p equipment and is connected to the Ex p equipment to be protected by a hose. Possible up to a protected volume of max. 70 liters.
	Display	For the Ex p control unit APEXpx, APEXpy and SILASpz there is the possibility to connect a display module "p-Operator Panel". In the standard configuration the control units are without display unit.
	Purge gas	Selection of the purge gas used.

Ex p Specification sheet

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	Specification enclosure	
	Width	Specification of the control cabinet width, without external attachments
	Height	Specification of the control cabinet height, without external attachments
	Depth	Specification of the control cabinet depth, without external attachments
	IP Degree of protection	Selection of the IP degree of protection switch cabinet
	Installation	Selection of the installation of the control cabinet
	Substructure	Selection of the substructure, e.g. switch cabinet base
	Material	Selection of the control cabinet materialSelection for the height of the substructure
	Height of the substructure	Selection for the height of the substructure
	Design doors	Selection of the door design
	Number of doors	For multi-door control cabinets, information on the number of doors. Maximum door width is 1200 mm.
	Door hinges	Information on the stop of the doors
	Flange plate	Design of the cable entry
	Color	Selection of the color, in case of a different color, this must be indicated in the addition.
	Seawater resistance	Selection seawater resistant paint
	Window	Window selection in size
	Closer	Specification of the locking system
	Crane eyelets	Indication if crane eyes should be mounted
	Canopy / Cover	Canopy or rain roof planned?
	Overhang	Overhang of the canopy/rain roof over the switch cabinet
	19" rack version	Internal construction with 19" rack?
	19" rack height	Information on HE for the 19" rack
	Protective door	Should a safety door be provided via components?Information on the size of the protective door
	Protective door size	Information on the size of the protective door
❽	**HMI**	
	Listed HMI's / Not listed HMI	Here is the selection of HMI's that are integrated in the APC/SPC certificate. If a not listed HMI is used, please enter the one under "Not listed HMI". To check the applicability, a data sheet must be attached to the request.
	Used Interface	Information on the applied interface
❾	**Control elements** Information on operating elements (basic ComEx series) in quantity, design and additional engraving text for signage.	
❿	**Cable glands** Information on the cable entries to be installed and their design	