



Interface hook-up data sheet for Brage – Wintershall Dea

ELECTRICAL

Power	Volt	Freq.	Phase current	Neut. loaded	System earth	Short circuit level		Distribution Protection		Connection platform	Connection temp. equip.	Area
						min (kA)	max (kA)	Fuse A	Earth Fault			
*	(V)	(Hz)	(A)	Yes/No	(S/I/R) **					Description / Type	Description / Type	Modul No. / Room No.
Main	230	60	16	N	S		10	16	30mA	Outlet socket: ABB: GHG 543 1306 V0 (blue) 6h 2P + PE	Plug: ABB: GHG 543 2306 V0 (blue) 6h 2P + PE	Only for lighting and minor heating purposes
Main	230	60	63	N	S		10	63	0,5A	Outlet socket: ABB: GHG 534 1409 V0 (blue) 9h 3P + PE	Plug: ABB: GHG 534 2409 V0 (blue) 9h 3P + PE	Max 15 kW
Main	660	60	63	N	R		60	63	0,5A	Outlet socket: ABB: GHG 534 1405 V0 (black) 5h 3P + PE	Plug: ABB: GHG 534 2405 V0 (black) 5h 3P + PE	Max 36 kW
Main	660	60	125	N	R			125	0,5A	Outlet socket: ABB: GHG 536 1505 V0 (black) 5h 3P + N + PE	Plug: ABB: GHG 535 2505 V0 (black) 5h 3P + N + PE	Max 60 kW Only available in few areas in the drilling modules. Possibility for connection must be agreed in each individual case.

*) : Main = Main Power / Emg = Emergency Power / Ess = Essential Power / UPS = UPS Power

**) : S = Solidly (direct earthing) / I = Isolated / R = Resistor (earthing through resistor)

SHORT CIRCUIT LEVEL

Values reflect short circuit level inside the switchboard

Regarding switchboard for temporary equipment the short circuit level inside or at the switchboard will be lower

When calculating the level of the short circuit following parameters can be used:

* From the facility's main switchboard and via fixed cabling to the socket/connection point for temporary equipment; 3x25mm² - 50 m.

* From the facility's socket/connection point for temporary equipment and via flexible cables to the equipment; 3x16mm² - 35 m.

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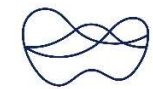
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INSTRUMENT

Function	Signal type	Connection platform	Connection temp. equip.	Area
		Description / Type	Description / Type	Modul No. / Room No.
Loss of pressure		Connection in junction box		
Fire	DI-NO (Digital Input-Normally open)	Socket outlet: CEAG GHG 511 4906 R0001 6h KU, pin 1, 2	Plug CEAG GHG 591 2201 R0002 6h pin 1, 2	BOP/M17 top
Gas	DI-NO (Digital Input-Normally open)	Socket outlet: CEAG GHG 511 4906 R0001 6h KU, pin 4, 5	Plug CEAG GHG 591 2201 R0002 6h pin 4, 5	BOP/M17 top
Other	DI-NO (Digital Input-Normally open)	Socket outlet: CEAG GHG 511 4906 R0001 6h KU, pin 10, 11, (serial connection with pin 1 & 2)	Plug CEAG GHG 591 2201 R0002 6h pin 10, 11	(Manual fire call point) BOP/M17 top
ESD battery-syst.		Connection in junction box		

TELECOM

Function	Signal type	Connection platform	Connection temp. equip.	Area
		Description / Type	Description / Type	Modul No. / Room No.
PA (x2, A and B redundant system)		STAHL 8575/11-404 4h (yellow)	STAHL 8575/12-404 4h (yellow)	BOP M31 x2 M17 top x2
TelephoneTelephone		STAHL 8570/11-410 10h 3P + PE (green)	STAHL 8570/12-410 10h 3P + PE (green)	BOP M31 x2 M17 top x1 M17 x1
Fiber		4-channel PBJR contact-ST 62.5/OM1 MM (Multi mode) JR contact Standard 1000 Mbit (A1 & B1) Optional 100 Mbit	4-fiber PBJR plug 62.5/OM1 MM (Multi mode) JR contact Standard 1000 Mbit (A1 & B1) Optional 100 Mbit	
Fiber		4-fiber PBJR plug 62.5/OM1 MM (Multi mode) JR contact Standard 1000 Mbit (A1 & B1) Optional 100 Mbit (A2 & B2)	4-fiber PBJR plug 62.5/OM1 MM (Multi mode) JR contact Standard 1000 Mbit (A1 & B1) Optional 100 Mbit (A2 & B2)	M17 Top



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UTILITIES

Function	Pressure (BARG)	Amount/flow Max capacity	Connection			Area Module No. /Room No.
			Type	Diameter	Material	
Plant air	8,8 (12,5 design pressure)	1" utility station.				
Instr. air	8,8 (12,5 design pressure)	instrument manifold				
Sprinkler system						
Seawater	9,5 @cellar deck	5 m³/h (utility station)				
Freshwater	7 @cellar deck	1,5m³/h (utility station)				
Drain	ATM (7 design pressure)	Closed drain KO drum				

LIFTING CAPACITY OFFSHORE CRANES

Crane	1 meter significant wave height max. load at 25m outreach (tons)	2 meters significant wave height max. load at 25m outreach (tons)	3 meters significant wave height max. load at 25m outreach (tons)
South Crane – single fall	15	15	12,8
South Crane – double fall	30	27,9	23,3
North Crane – single fall	15	14,7	12,1
North Crane – double fall	30	26,9	-

Info: For 3 fall lift or limited lifts contact Wintershall Dea for details