



Product Guide For Sleipner fault code lookup registry

DOCUMENT ID: 6797

REVISION: 7

DATE: 2024

LANGUAGE: EN

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Online Troubleshooting and Fault Codes

MC_0974

For the latest fault codes scan the QR code below for quick access to our Fault code lookup database register.



Or visit our website via
www.sleipnergroup.com/support/fault-code-navigator
to download a print copy of the Sleipner product fault code register

MC_0020

PPC Fault Codes

Fault Code	Description	Cause	Action
10000.0.11	Motor Temp - Level High	Motor temperature is higher than 120C/248F	- Motor must cool down to below 110C/230F
10000.0.13	Motor Temp - Open Circuit	Motor temperature sensor open circuit	-Check for open circuit on the temperature sensor on the motor
10000.0.16	Motor Temp - Short Circuit	Motor temperature sensor short circuit	-Check for short circuit on the temperature sensor on the motor
10001.0.13	Motor Thermo Switch - Open Circuit	Thermoswitch input is activated	-Motor needs to cool down before operated again -If motor is not warm then check for thermoswitch open circuit or wrong setup
10100.0.11	Device Cooling Fin Temp - Level High	PPC controller temperature is higher than 80C/176F	-PPC must cool down to below 45C/113F
10200.0.10	System Voltage - Level Low	Low motor voltage when motor is running. 12V thruster below 8.0V 24V thruster below 12.0V	-Reset or power OFF, wait 30sec and power ON the PPC -Recharge thruster battery
20000.0.73	IPC - Contact Before Energized	IPC error, motor relay fault before energized	-Turn off thruster battery main switch. -Thruster must be serviced by authorized personnel
20000.200.70	IPC Starboard No Contact Energized	IPC error, motor relay no contact when energized to starboard side	-Turn off thruster battery main switch. -Thruster must be serviced by authorized personnel -If motor running up to 60% then check if A2 white wire is connected
20000.201.70	IPC Port No Contact Energized	IPC error, motor relay no contact when energized to port side	-Turn off thruster battery main switchThruster must be serviced by authorized personnel -If motor running up to 60% then check if A2 white wire is connected
30000.200.51	Thruster Solenoid Starboard Current High	Motor starboard contactor fault	-Check motor contactor connections -Check for short circuit -Check for dead relay
30000.201.51	Thruster Solenoid Port Current High	Motor port contactor fault	-Check motor contactor connections -Check for short circuit -Check for dead relay
30100.0.51	Thruster Motor Current - Current High	Motor current too high	-Reset or power OFF, wait 30sec and power ON the PPC -Check for marine growth on propeller and tunnel -Check obstacles in the thruster tunnel -If not resolved, thruster must be serviced by authorized personnel
30100.0.52	Thruster Motor Current - Current Critical	Motor current critical high	-Reset or power OFF, wait 30sec and power ON the PPC -If not resolved, thruster must be serviced by authorized personnel
30300.0.19	Cooling Fan Speed - Under Limit	Cooling fan stopped or running to slow	PPC must be serviced by authorized personnel

MC_0537

AMS Fault Codes

Fault Code	Description	Cause	Action
153.0.24	Supply Voltage - Fault	Supply Voltage Fault	-Check power connections
10101.0.55	Device CPU Temp - Overtemp	Main MCU temperature above max limit	-Wait for AMS to cool down
22000.0.0	AMS Manual Override	Main switch manually overridden	-Pull main switch
22001.0.0	AMS Fuse Blown	Fuse blown	-Replace fuse -Check if main cable from battery and main cable to thruster has been switched
22002.0.51	Coil - Current High	Contactor coil overcurrent or short circuit	Cycle power to unit and retry, if persistent, contact service
22003.0.55	Contactor - Overtemp	AMS contactor temperature above max limit	-Wait for AMS to cool down

150000 Fault Codes

Fault Code	Description	Cause	Action
10000.0.11	Motor Temp - Level High	Motortemp has been over 120C (248F)	Motor cool down below 110C (230F)
10000.0.13	Motor Temp - Open Circuit	Motor temperature sensor open circuit	-Check motor temperature sensor wires for open circuit.
10000.0.16	Motor Temp - Short Circuit	Motor temperature sensor short circuit	-Check motor temperature sensor wires for short circuit.
10003.0.11	Transistor Temperature - Level High	Actuator transistor temperature is high	-Control box needs to cool down
10200.0.54	System Voltage - Undervoltage	Low motor voltage alarm when motor is running. 12V thruster below 8.00V 24V thruster below 12.00V	-Recharge battery, reset or power OFF/ON device.
10600.0.210	Retract Controller - Service Mode	Retract controller in service mode. Switch no. 4 is ON.	-Check dip switch setting on retract control box.
10601.0.24	Retract Position Sensor - Fault	Position sensor fault	-Check position sensor cables and sensor for damage
10602.0.50	Retract Motion OUT Fault - Current Low	Actuator current is below 0.5A when deploying	-Check actuator connection or power to actuator. -If actuator is warm, try again when actuator has cooled down.
10602.0.51	Retract Motion OUT Fault - Current High	Retract obstructed while deploying	-Turn off all panels. Go for lower speed/deeper water and retry
10603.0.50	Retract Motion IN Fault - Current Low	Actuator current is below 0.5A when retracting	-Check actuator connection or power to actuator. -If actuator is warm, try again when actuator has cooled down.
10603.0.51	Retract Motion IN Fault - Current High	Retract obstructed while retracting	-Turn panel on and manually override main switch. Remove obstruction and try again.
10604.0.203	Retract Shaft - Not Calibrated	Shaft Not Calibrated	-See manual for how to calibrate.
20000.0.72	IPC - Contact After Deenergized	Solenoid has contact after de-energized	-Turn off thruster battery main switch. Thruster must be serviced by authorized personnel.
20000.0.73	IPC - Contact Before Energized	Solenoid has contact when not energized	-Turn off thruster battery main switch. Thruster must be serviced by authorized personnel.
20000.200.70	IPC Starboard No Contact Energized	Solenoid has no contact when energized to starboard side	-Turn off thruster battery main switch. Thruster must be serviced by authorized personnel.
20000.201.70	IPC Port No Contact Energized	Solenoid has no contact when energized to port side	-Turn off thruster battery main switch. Thruster must be serviced by authorized personnel.
30000.200.51	Thruster Solenoid Starboard Current High	Motor starboard solenoid high current	-Check starboard solenoid connections for short circuit
30000.201.51	Thruster Solenoid Port Current High	Motor port solenoid high current	-Check port solenoid connections for short circuit

	Description	Cause	Action
100.0.0	System Error	Internal Error	Consult Sleipner dealer.
100.100.24	System Error Fin Port Fault	Phase deviation in motor for Port (Front Port for 4-fin systems) fin.	- If problem persist, consult Sleipner dealer.
100.101.24	System Error Fin Starboard Fault	Phase deviation in motor for Starboard (Front Starboard for 4-fin systems) fin.	- If problem persist, consult Sleipner dealer.
100.102.24	System Error Fin Rear Port Fault	Phase deviation in motor for Rear Port fin.	- If problem persist, consult Sleipner dealer.
100.103.24	System Error Fin Rear Starboard Fault	Phase deviation in motor for Rear Starboard fin.	- If problem persist, consult Sleipner dealer.
109.0.0	Configuration Error	Device coding incompatible with connected fins.	Set the device coding to the appropriate coding with S-Link Programmer. Use the manual to see what coding to use with which fin.
201.0.200	NMEA2000 Transmission parameter - Timeout	No NMEA2000 (PGN127493) transmission message received for 2 seconds.	Check if GW-X status is OK by checking the GW-X status LED (See GW-X user manual).
Check cabling	SCU Sensor board fault 2 - READ FAIL	Sensor board fault.	-Consult Sleipner dealer
5000.0.0	Backing Detected	Backing Detected	
5001.0.0	High Speed And Stabilizer Off	High Speed And Stabilizer Off	
5002.100.30	Service Oil Change Fin Port Now	Time for Oil Change	Change oil at the next opportunity
5002.100.31	Service Oil Change Fin Port Within 100 Hours	Time for Oil Change	Change oil within the next 100 hours
5002.100.32	Service Oil Change Fin Port Within 200 Hours	Time for Oil Change	Change oil within the next 200 hours
5002.100.33	Service Oil Change Fin Port Within 300 Hours	Time for Oil Change	Change oil within the next 300 hours
5002.100.34	Service Oil Change Fin Port Within 400 Hours	Time for Oil Change	Change oil within the next 400 hours
5002.100.35	Service Oil Change Fin Port Within 500 Hours	Time for Oil Change	Change oil within the next 500 hours
5003.100.30	Service Change Gear Fin Port Now	Time for gear change	Change gear at the next opportunity
5003.100.31	Service Change Gear Fin Port Within 100 Hours	Time for gear change	Change gear within the next 100 hours
5003.100.32	Service Change Gear Fin Port Within 200 Hours	Time for gear change	Change gear within the next 200 hours
5003.100.33	Service Change Gear Fin Port Within 300 Hours	Time for gear change	Change gear within the next 300 hours
5003.100.34	Service Change Gear Fin Port Within 400 Hours	Time for gear change	Change gear within the next 400 hours
5003.100.35	Service Change Gear Fin Port Within 500 Hours	Time for gear change	Change gear within the next 500 hours
5004.100.30	Service Main Seal Fin Port Now	Time for main seal change	Change main seal at the next opportunity
5004.100.31	Service Main Seal Fin Port Within 100 Hours	Time for main seal change	Change main seal within the next 100 hours
5004.100.32	Service Main Seal Fin Port Within 200 Hours	Time for main seal change	Change main seal within the next 200 hours
5004.100.33	Service Main Seal Fin Port Within 300 Hours	Time for main seal change	Change main seal within the next 300 hours
5004.100.34	Service Main Seal Fin Port Within 400 Hours	Time for main seal change	Change main seal within the next 400 hours
5004.100.35	Service Main Seal Fin Port Within 500 Hours	Time for main seal change	Change main seal within the next 500 hours
5005.100.0	Docking Mode Activated Fin Port -	Docking Mode Activated	
5006.0.0	ECO Mode Activated	Eco Mode Activated.	
10000.100.55	Motor Temp Fin Port Overtemp	Motor temp too high on Port (Front Port if 4-fin system) fin.	Verify cooling is nominal and motortemp sensor is working.
10000.100.59	Motor Temp Fin Port Foldback Fault	Motor is running to heavy.	- If problem persist, consult Sleipner dealer.
10000.101.55	Motor Temp Fin Starboard Overtemp	Motor temp too high on Starboard (Front Starboard if 4-fin system) fin.	Verify cooling is nominal and motortemp sensor is working.
10000.102.55	Motor Temp Fin Rear Port Overtemp	Motor temp too high on Rear Port fin.	Verify cooling is nominal and motortemp sensor is working.
10000.103.55	Motor Temp Fin Rear Starboard Overtemp	Motor temp too high on Rear Starboard fin.	Verify cooling is nominal and motortemp sensor is working.
10003.100.55	Transistor Temperature Fin Port Overtemp	IGBT transistor temp for fin Port (Front Port if 4-fin system) too high.	Verify cooling is nominal and temperature sensor is working.
10003.101.55	Transistor Temperature Fin Starboard Overtemp	IGBT transistor temp for fin Starboard (Front Starboard if 4-fin system) too high.	Verify cooling is nominal and temperature sensor is working.
	Transistor Temperature Fin Rear Port Overtemp	IGBT transistor temp for fin Rear Port too high.	Verify cooling is nominal and temperature sensor is working.
10003.103.55	Transistor Temperature Fin Rear Starboard Overtemp	IGBT transistor temp for fin Rear Starboard too high.	Verify cooling is nominal and temperature sensor is working.
10004.100.13	Motor Brake Fin Port Open Circuit	No connectin with the actuator break.	Check break wiring. If problem persist, consult Sleipner dealer.
10004.100.50	Motor Brake Fin Port Current Low	Undercurrent on motor brake.	Check brake wiring. If problem persists, consult Sleipner dealer.
10004.100.51	Motor Brake Fin Port Current High	Fin brake overcurrent.	Check brake wiring. If problem persists, consult Sleipner dealer.
10101.0.11	Device CPU Temp - Level High	CPU temperature higher than 85 degrees.	Ventilate the room were the SCU is placed. Consult Sleipner dealer.
10101.100.55	Device CPU Temp Fin Port Overtemp	Fin controller CPU temp too high.	Verify that cooling is nominal and ventilation sufficient.
10200.100.24	System Voltage Fin Port Fault	System voltage error.	Verify that circuit breakers are closed, and that the system voltage is nominal.
10200.100.53	System Voltage Fin Port Overvoltage	Supply voltage for Port (Front Port if 4-fin system) fin is to high.	Check power supply.

Section Sect	Fault Code	Description	Cause	Action
Section (1997) System visible for in State (1997) Section (1997) S	10200.100.54	System Voltage Fin Port Undervoltage	Battery undervoltage for Port (Front Port if 4-fin system) fin.	Verify that battery is charged.
Section 1998 Section State	10200.101.53	System Voltage Fin Starboard Overvoltage		Check power supply.
1900 100.55 Spear Mobility on Place Port Dischardural Southy underwidings for files Port St. Southy Charles St. Southy Charle	10200.101.54	System Voltage Fin Starboard Undervoltage		Verify that battery is charged.
Special Contents Special Market Statement Special Yorking No Plant Statement	10200.102.53	System Voltage Fin Rear Port Overvoltage	Supply voltage for Rear Port fin is to high.	Check power supply.
Secretary Controllage in Resp Statebard Statebard Controllage Statebard Co	10200.102.54	System Voltage Fin Rear Port Undervoltage	Battery undervoltage for Rear Port fin.	Verify that battery is charged.
10021.0022 Motor Position File Port Ownerholds Fine Port Committee Supply outless from Position Owner Supply and Nove Position File Port Ownerholds Fine Port File File Position File Position Ownerholds File Position Position Owne	10200.103.53		Supply voltage for Rear Starboard fin is to high.	Check power supply.
10301.100.20 Motor Position Fin Part Out of position 10301.100.20 Motor Position Fin Part Out of position 10301.100.20 Motor Position Fin Part Out of position 10301.100.20 Motor Position Fin Part MOTION FAULT 10301.100.20 Motor Position Fin Part MOTION FAULT 10301.100.20 Motor Position Fin Rese Part Dear Unit 10301.100.20 Motor Maging Fin Part INIT FALL 10301.100.20 Motor Maging Fin Rese Part Failed Unit Magnetian Fin State Dear Motor Maging Fin Rese Part Failed 10301.100.20 Motor Maging Fin Rese Par	10200.103.54		Battery undervoltage for Rear Starboard fin.	Verify that battery is charged.
19301.109.22 Motor Pecition Fin Port Out of position Fin is a June pected position Very live encoded, does not situalization if encode has been communication activation by provided in the control of the control of position fin Port MOTION FAULT Very live in a june pected position Very live encoded, do not situation in excellent has been communication or activate in Populary dealer. Very live encoded, do not set in statistication if excellent has been communication or activate. In Populary dealer. Very live encoded, do not set in statistication if excellent has been communication or activate. In Populary dealer. Very live encoded, do not set in statistication if excellent has been controlled from the Port Out of the Rev	10210.100.53	Operating Voltage Fin Port Overvoltage	Fin controller supply voltage too high.	Check voltage on low-voltage battery.
1909.1.100.22 Motor Position Fine Position of Procession of Fine Fine In a newspected position on protein procession of Proc	10301.100.20	Motor Position Fin Port Over Limit		-If problem persist, consult Sleipner dealer.
Appointment	10301.100.22	Motor Position Fin Port Out of position	Fin is in a unexpected positition.	remounted on actuator. Verify that the actuator break is ok. If
JOURNALITY OF Position Fin Rear Port Over Limb JOURNALITY OF Position Fin Rear Port Over Limb JOURNALITY OF Position Fin Rear Starboard Over Fin Rear Starboard Over Fin Fin Starboard Over Fin Fin Starboard Over Fin Starboar	10301.100.209	Motor Position Fin Port MOTION FAULT	Wrong fin motion detected during centering	
10301-103-20 Motor Position Fin Rear Starboard Over Limit Fin Rear Starboard position overshoots expected position — If problem persist, consult Sieipper dealer. 10304-100-202 Motor Aligning Fin Port INIT FALL Starboard Fine Fort Front Port for 4-fin systems) fin is to high a Uniform Port (Front Port for 4-fin systems) fin is to high a Uniform Port (Front Port for 4-fin systems) fin is to high a Uniform Port (Front Port for 4-fin systems) fin is to high a Uniform Port (Front Port for 4-fin systems) fin is to high a Uniform Port Port (Front Port for 4-fin systems) fin is to high a Uniform Port Port Port Port Port Port Port Port	10301.101.20	Motor Position Fin Starboard Over Limit		-If problem persist, consult Sleipner dealer.
10304-100.20 Motor Aligning Fin Port NETT FAIL 10304-100.21 Motor Aligning Fin Port Developed Speed for Port (Front Port for 4-fin systems) fin is to high during motor aligning Fin Starboard Failed Motor Aligning Fin Starboard Failed Systems in Starboard For 4-fin systems) fin is to high during motor aligning Fin Starboard Failed Systems in Starboard For 4-fin systems) fin is to high during motor aligning Fin Starboard INIT FAIL 10304-101-21 Motor Aligning Fin Starboard INIT FAIL 10304-101-22 Motor Aligning Fin Starboard Overspeed Systems Fin Starboard Fin Starboard Overspeed Systems Fin Starboard Fin Starboard Overspeed Systems Fin Starboard Fin Starboard Fin Starboard Overspeed Systems Fin Starboard Fin Starboa	10301.102.20	Motor Position Fin Rear Port Over Limit	Fin Rear Port position overshoots expected position	-If problem persist, consult Sleipner dealer.
19304.10.2.12 Motor Aligning Fin Port Overspeed Speed for Port (Front Port for 4-fin systems) fin is to high during motor aligning fin Port Aligning Fin Starboard Failed Motor aligning in Failed. 19304.10.1.21 Motor Aligning Fin Starboard Failed Motor aligning motor aligning fin failed. 19304.10.1.22 Motor Aligning Fin Starboard INIT FAIL. 19304.10.1.22 Motor Aligning Fin Starboard Overspeed Speed for Starboard for A-fin systems) fin is to high during motor aligning fin Starboard Overspeed Speed for Starboard for A-fin systems) fin is to high during motor aligning fin Rear Port Failed Motor aligning Fin Starboard Overspeed Speed for Starboard for A-fin systems) fin is to high during motor aligning fin Rear Port Failed Motor aligning Fin Rear Port INIT FAIL. 19304.10.2.21 Motor Aligning Fin Rear Port Failed Motor aligning motor aligning Motor aligning Fin Rear Port Overspeed Speed for Starboard For A-fin systems) fin is to high during motor aligning Motor Aligning Fin Rear Port Overspeed Speed for Starboard For A-fin systems) fin is to high during motor aligning Motor Aligning Fin Rear Port Overspeed Speed for Starboard For A-fin systems) fin is to high during motor aligning Motor Aligning Fin Rear Starboard Failed Motor aligning motor aligning Motor Aligning Fin Rear Starboard Failed Motor aligning motor aligning Motor Aligning Fin Rear Starboard Failed Motor Aligning Fin Rear Starboard Faile	10301.103.20	Motor Position Fin Rear Starboard Over Limit	Fin Rear Starboard position overshoots expected position	- If problem persist, consult Sleipner dealer.
19304.101.21 Motor Aligning Fin Starboard Failed More alignment in Starboard Front Starboard for 4-fin systems) fin failed. If problem persist, consult Siepner dealer.	10304.100.201	Motor Aligning Fin Port INIT FAIL		- If problem persist, consult Sleipner dealer.
19304.101.201 Motor Aligning Fin Starboard INIT FAIL Subboard for 4-fin systems) fin failed. 19304.101.202 Motor Aligning Fin Starboard INIT FAIL Subboard for 4-fin systems) fin 5 to high during motor alignment for Starboard for 4-fin systems) fin 5 to high during motor alignment for Rear Port fin Starboard for 4-fin systems) fin 6 to high during motor alignment for Rear Port fin Starboard for 4-fin systems) fin 7 to problem persist, consult Sietpner dealer. 19304.102.201 Motor Aligning Fin Rear Port INIT FAIL Init Failed during motor alignment for Rear Port fin 1 to high during motor alignment problem persist, consult Sietpner dealer. 19304.102.212 Motor Aligning Fin Rear Port Overspeed Speed for Rear Port fin is to high during motor aligning fin Rear Starboard Failed Motor alignment in Port (Front Port for 4-fin systems) fin 1 problem persist, consult Sietpner dealer. 19304.103.201 Motor Aligning Fin Rear Starboard Failed Motor alignment in Rear Starboard fin Instead of Instead Activation Aligning Fin Rear Starboard Overspeed Speed for Rear Starboard fin is to high during motor aligning fin Rear Starboard fin Failed to perform motor alignment. 19304.103.201 Motor Aligning Fin Rear Starboard Overspeed Speed for Rear Starboard fin is to high during motor aligning fin Rear Starboard fin Failed Speed for Rear Starboard fin is to high during motor aligning fin Rear Starboard fin Failed Speed for Rear Starboard fin is to high during motor aligning fin Rear Starboard Overspeed Speed for Rear Starboard fin is to high during motor aligning fin Rear Starboard Overspeed Speed for Rear Starboard fin is to high during motor aligning fin Rear Starboard fin Speed for Rear Starboard fin is to high during motor aligning fin Rear Starboard Speed for Rear Starboard Speed for Rear Starboa	10304.100.212	Motor Aligning Fin Port Overspeed		-If problem persist, consult Sleipner dealer.
10304.10.1.21 Motor Aligning Fin Starboard Overspeed Speed for Starboard for 4-fin systems) fin 5 on high during motor aligning Fin Starboard Overspeed Speed for Starboard for 4-fin systems) fin 5 on high during motor aligning Fin Rear Port Fin Falled Motor Aligning Fin Rear Port Fin Falled Individual during motor aligning Fin Rear Port Fin Falled Individual during motor aligning Fin Rear Port Fin Falled Individual for Rear Fall Fin Falled Individual for Rear Fall Fin Falled Individual for Rear Fall Fin Falled Individual for Fin Falled Indivi	10304.101.21	Motor Aligning Fin Starboard Failed		- If problem persist, consult Sleipner dealer.
to high during motor aligning — 11 problem persist, consult Sleipner dealer. 10304.10.2.21 Motor Aligning Fin Rear Port Failed Motor alignment in Rear Port fin failed. — 11 problem persist, consult Sleipner dealer. 10304.10.2.21 Motor Aligning Fin Rear Port INT FAIL Init Failed during motor alignment for Rear Port Inn. — 11 problem persist, consult Sleipner dealer. 10304.10.3.21 Motor Aligning Fin Rear Port Deverspeed Speed for Rear Port fin is to high during motor aligning — 11 problem persist, consult Sleipner dealer. 10304.10.3.22 Motor Aligning Fin Rear Starboard Failed failed. — 11 problem persist, consult Sleipner dealer. 10304.10.3.21 Motor Aligning Fin Rear Starboard Failed Motor alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port A-fin systems) fin alignment in Port (Front Port Port A-fin systems) fin alignment in Port (Front Port Port Port Port Port Port Port Por	10304.101.201	Motor Aligning Fin Starboard INIT FAIL		- If problem persist, consult Sleipner dealer.
10304.102.201 Motor Aligning Fin Rear Port INIT FAIL 10304.102.212 Motor Aligning Fin Rear Port Overspeed Speed for Rear Port fin is to high during motor aligning - If problem persist, consult Sleipner dealer. 10304.103.21 Motor Aligning Fin Rear Starboard Failed falled. 10304.103.21 Motor Aligning Fin Rear Starboard Failed falled. 10304.103.21 Motor Aligning Fin Rear Starboard Failed Motor alignment in Port (Front Port for 4-fin systems) fin fall falled. 10304.103.21 Motor Aligning Fin Rear Starboard Failed Motor alignment in Rear Starboard fin failed. 10304.103.212 Motor Aligning Fin Rear Starboard INIT FAIL 10304.103.212 Motor Aligning Fin Rear Starboard Overspeed Speed for Rear Starboard fin is to high during motor alignment. 10607.100.0 Actuator Aligning Fin Rear Starboard Overspeed Speed for Rear Starboard fin is to high during motor aligning. 10607.100.0 Actuator Aligning Fin Rear Starboard Overspeed Speed for Rear Starboard fin is to high during motor aligning. 10607.100.0 Actuator Alignment Fault Fin Port - Fin failed to perform motor alignment. 10607.100.0 Actuator Alignment Fault Fin Port - Fin failed to perform motor alignment. 10607.100.0 Actuator Alignment Fault Fin Port - Acceleration in knots to high indicating a false signal 10600.0.204 Centering failed - Fault Centering failed due to fin actuator alarm Check fin actuator connections. 10000.0.204 Centering failed Fin Port - Fin failed to go to center. Verify fin not under high load. 10000.0.205 Sensor Fault 1 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 10000.0.206 Sensor Fault 2 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 10000.0.207 Sensor Fault 2 - READ FAIL Sensor board fault. Consult Sleipner dealer. 10000.0.208 Sensor Fault 3 - READ FAIL Sensor board fault. Consult Sleipner dealer. 10000.0.209 PHC-3 - No Communication PHC-3 Sensor board fault. Consult Sleipner dealer. 10000.0.200 PHC-3 - Timeout PHC-3 - Timeout PHC-3 Sensor board fault. Consult Sleipner dealer. Check PHC-3 spater pressure re	10304.101.212	Motor Aligning Fin Starboard Overspeed		- If problem persist, consult Sleipner dealer.
10304.102.212 Motor Aligning Fin Rear Port Overspeed Speed for Rear Port fin is to high during motor aligning - If problem persist, consult Sleipner dealer. 10304.103.21 Motor Aligning Fin Rear Starboard Failed Motor alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port for 4-fin systems) fin alignment in Port (Front Port 4-fin systems) fin alignment in Port (Front	10304.102.21	Motor Aligning Fin Rear Port Failed	Motor alignment in Rear Port fin failed.	- If problem persist, consult Sleipner dealer.
Motor Aligning Fin Rear Starboard Failed failed. Motor Aligning Fin Rear Starboard Failed Motor alignment in Port (Front Port for 4-fin systems) fin failed. If problem persist, consult Sleipner dealer. 10304.103.21 Motor Aligning Fin Rear Starboard Failed Motor alignment in Rear Starboard fin failed. In Failed during motor alignment for Rear Starboard fin. In Failed during motor alignment for Rear Starboard fin. If problem persist, consult Sleipner dealer. In Forbiem persist, consult Sleipner dealer. Check if GW.X status is ok by checking the dealer. Check if GW.X status is ok by checking the GW.X status LED (See GW.X ser manual). Check if GW.X status is ok by checking the GW.X status LED (See GW.X ser manual). Check if GW.X status is ok by checking the GW.X status LED (See GW.X ser manual). Check if GW.X status is ok by checking the GW.X status LED (See GW.X ser manual). Check if GW.X status is ok by checking the GW.X status LED (See GW.X ser manual). Check if GW.X status is ok by checking the GW.X status LED (See GW.X status is ok by checking the GW.X status LED (See GW.X status Ison	10304.102.201	Motor Aligning Fin Rear Port INIT FAIL	Init Failed during motor alignment for Rear Port fin.	- If problem persist, consult Sleipner dealer.
10304_103.21 Motor Aligning Fin Rear Starboard Failed Motor alignment in Rear Starboard fin failed. -If problem persist, consult Sleipner dealer. -If problem persis	10304.102.212	Motor Aligning Fin Rear Port Overspeed	Speed for Rear Port fin is to high during motor aligning	- If problem persist, consult Sleipner dealer.
10304.103.201 Motor Aligning Fin Rear Starboard INIT FAIL 10304.103.212 Motor Aligning Fin Rear Starboard Overspeed Speed for Rear Starboard fin is to high during motor aligning - If problem persist, consult Sleipner dealer. 10607.100.0 Actuator Alignment Fault Fin Port - Fin failed to perform motor alignment. 35000.200 GPS signal lost - Timeout No GPS data from GW-1/GW-X received for 3 seconds Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check abiling 35000.204 GPS signal lost - SIGNAL LOST Acceleration in knots to high indicating a false signal - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check cabling - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check eabing - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check eabing - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check eabing - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check eabing - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check eabing - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check eabing - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check eabing - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check eabing - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check eabing - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check if GW-X status	10304.103.21	Motor Aligning Fin Rear Starboard Failed		- If problem persist, consult Sleipner dealer.
10304.103.212 Motor Aligning Fin Rear Starboard Overspeed Speed for Rear Starboard fin is to high during motor aligning - If problem persist, consult Sleipner dealer. 10607.100.0 Actuator Alignment Fault Fin Port - Fin failed to perform motor alignment. Try again. If it persists, verify that the encoder is not moving during alignment. 10607.100.0 GPS signal lost - Timeout No GPS data from GW-1/GW-X received for 3 seconds Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check cabbing Check check if System is switching between GPS systems Check if System is switching Check Check if Check if System is switching Check Check if Check i	10304.103.21	Motor Aligning Fin Rear Starboard Failed	Motor alignment in Rear Starboard fin failed.	- If problem persist, consult Sleipner dealer.
Actuator Alignment Fault Fin Port - Fin failed to perform motor alignment. Try again. If it persists, verify that the encoder is not moving during alignment. Source of Sps signal lost - Timeout No GPS data from GW-1/GW-X received for 3 seconds GPS signal lost - SIGNAL LOST Acceleration in knots to high indicating a false signal - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check cabiling - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check cabiling - Check if GW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check cabiling - Check if System is switching between GPS systems - Check if System is switching between GPS systems - Check if Put-G signal lost - Signal l	10304.103.201	Motor Aligning Fin Rear Starboard INIT FAIL	Init Failed during motor alignment for Rear Starboard fin.	- If problem persist, consult Sleipner dealer.
Acceleration in knots to high indicating a false signal GPS signal lost - Timeout No GPS data from GW-1/GW-X received for 3 seconds GPS signal lost - Timeout Acceleration in knots to high indicating a false signal - Check if SW-X status is ok by checking the GW-X status LED (See GW-X user manual). Check cabling - Check fig System is switching between GPS systems - Check fig System is switching between GPS systems - Check fig System is switching between GPS systems - Check fig Average and a false signal - Check fig System is switching between GPS systems - Check fig Average and System is switching between GPS systems - Check fig Average and System is switching between GPS systems - Check fig Average and System is switching between GPS systems - Check fig Average and System is switching between GPS systems - Check fig Average and System is switching between GPS systems - Check fig Average and System is switching between GPS systems - Check fig Average and System is switching between GPS systems - Check fig Average and System is switching between GPS systems - Check fig Average and System is switching between GPS systems - Check fig Average and System is switching between GPS systems - Check fig Average and System is switching between GPS systems - Check fig Average and System is switching between GPS systems - Check if System is switching between GPS systems - Check if System is switching between GPS systems - Check if System is switching between GPS systems - Check if System is switching between GPS systems - Check if System is switching between GPS systems - Check if System is switching between GPS systems - Check if System is switching between GPS systems - Check if System is switching between GPS systems - Check if System is switching between GPS systems - Check if System is switching between GPS systems - Check if System is switching between GPS systems - Check if System is switching between GPS systems - Check if System is switching between GPS systems - Check if System i	10304.103.212	Motor Aligning Fin Rear Starboard Overspeed	Speed for Rear Starboard fin is to high during motor aligning	- If problem persist, consult Sleipner dealer.
Spool GPS signal lost - Timeout No GPS data from GW-1/GW-X received for 3 seconds Check cabling	10607.100.0	Actuator Alignment Fault Fin Port -	Fin failed to perform motor alignment.	
A0000.0.24 Centering failed - Fault Centering failed due to fin actuator alarm Check fin actuator connections. 40000.100.0 Centering failed Fin Port - Fin failed to go to center. Verify fin not under high load. 40001.0.201 Sensor Fault 1 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40001.0.202 Sensor Fault 2 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40002.0.201 Sensor Fault 2 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40002.0.202 Sensor Fault 2 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40003.0.201 Sensor Fault 3 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40003.0.202 Sensor Fault 3 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40004.0.204 PHC-3 - Fault Detected fault on PHC-3 Consult Sleipner dealer. 40004.0.205 Sensor Fault 3 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40004.0.206 PHC-3 - Fault Detected fault on PHC-3 Consult Sleipner dealer. 40004.0.207 PHC-3 - No Communication PHC-3 communication lost for more than 500ms. Check PHC-3 faults for more information. Check PHC-3 faults for more information. 40004.0.200 PHC-3 - Timeout PHC-3 startup timed out. Trigger when startup takes longer than 60 seconds 40004.0.200 PHC-3 - Sensire Mode PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. 40004.0.210 PHC-3 - Sensire Mode PHC-3 in manual mode PHC-3 Stop purpled the PHC-3 in manual mode PHC-	35000.0.200	GPS signal lost - Timeout	No GPS data from GW-1/GW-X received for 3 seconds	GW-X user manual).
40001.02.01 Sensor Fault 1 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40001.02.02 Sensor Fault 2 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40002.02.01 Sensor Fault 2 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40002.02.02 Sensor Fault 2 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40002.02.02 Sensor Fault 2 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40003.02.01 Sensor Fault 3 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40003.02.02 Sensor Fault 3 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40004.02.04 PHC-3 - Fault Detected fault on PHC-3 Consult Sleipner dealer. 40004.02.05 PHC-3 - No Communication PHC-3 communication lost for more than 500ms. Check PHC-3 is able to build up the pressure. Check PHC-3 spareneer and is working Check S-Link cabling Check PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 is natural made.	35000.0.204	GPS signal lost - SIGNAL LOST	Acceleration in knots to high indicating a false signal	-Check if system is switching between GPS systems
40001.0.201 Sensor Fault 1 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40001.0.202 Sensor Fault 1 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40002.0.201 Sensor Fault 2 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40002.0.202 Sensor Fault 2 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40003.0.201 Sensor Fault 3 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40003.0.202 Sensor Fault 3 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40004.0.202 Sensor Fault 3 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40004.0.204 PHC-3 - Fault Detected fault on PHC-3 Check PHC-3 faults for more information 40004.0.100 PHC-3 - No Communication PHC-3 communication lost for more than 500ms. Check if PHC-3 is powered and is working Check S-Link cabling 40004.0.200 PHC-3 - Timeout PHC-3 startup timed out. Trigger when startup takes longer than 60 seconds Trigger when the SCU attempts to start PHC-3 and the PHC-3 Storypring the PHC-3 in manual mode.	40000.0.24	Centering failed - Fault	Centering failed due to fin actuator alarm.	- Check fin actuator connections.
40001.0.202 Sensor Fault 1 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40002.0.201 Sensor Fault 2 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40002.0.202 Sensor Fault 2 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40003.0.201 Sensor Fault 3 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40003.0.202 Sensor Fault 3 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40004.0.202 Sensor Fault 3 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40004.0.204 PHC-3 - Fault Detected fault on PHC-3 Check PHC-3 faults for more information 40004.0.100 PHC-3 - No Communication PHC-3 communication lost for more than 500ms. Check if PHC-3 is able to build up the pressure. Check PHC-3 faults for more information. Check PHC-3 faults for more information. Check PHC-3 faults for more information. Check PHC-3 against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 system pressure sensor.	40000.100.0	Centering failed Fin Port -	Fin failed to go to center.	Verify fin not under high load.
40002.0.201 Sensor Fault 2 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40002.0.202 Sensor Fault 2 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40003.0.201 Sensor Fault 3 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40003.0.202 Sensor Fault 3 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40004.0.202 Sensor Fault 3 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40004.0.204 PHC-3 - Fault Detected fault on PHC-3 Check PHC-3 faults for more information PHC-3 - No Communication PHC-3 communication lost for more than 500ms. Check if PHC-3 is powered and is working Check S-Link cabling Check if PHC-3 is able to build up the pressure. Check PHC-3 faults for more information. Check PHC-3 faults for more information. Check PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 system pressure sensor.	40001.0.201	Sensor Fault 1 - INIT FAIL	Sensor board fault.	Consult Sleipner dealer.
40002.0.202 Sensor Fault 2 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40003.0.201 Sensor Fault 3 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40003.0.202 Sensor Fault 3 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40004.0.24 PHC-3 - Fault Detected fault on PHC-3 Check PHC-3 faults for more information 40004.0.100 PHC-3 - No Communication PHC-3 communication lost for more than 500ms. Check if PHC-3 is powered and is working Check S-Link cabling 40004.0.200 PHC-3 - Timeout PHC-3 startup timed out. Trigger when startup takes longer than 60 seconds 40004.0.210 PHC-3 - Service Mode Trigger when the SCU attempts to start PHC-3 and the PHC-3 Startup timed be PHC-3 in manual mode.	40001.0.202	Sensor Fault 1 - READ FAIL	Sensor board fault.	Consult Sleipner dealer.
4003.0.201 Sensor Fault 3 - INIT FAIL Sensor board fault. Consult Sleipner dealer. 40003.0.202 Sensor Fault 3 - READ FAIL Sensor board fault. Consult Sleipner dealer. 40004.0.24 PHC-3 - Fault Detected fault on PHC-3 Check PHC-3 faults for more information 40004.0.100 PHC-3 - No Communication PHC-3 communication lost for more than 500ms. Check if PHC-3 is powered and is working Check S-Link cabling PHC-3 - Timeout PHC-3 startup timed out. Trigger when startup takes longer than 60 seconds 40004.0.200 PHC-3 - Timeout PHC-3 startup timed out. Trigger when startup takes longer than 60 seconds Trigger when the SCU attempts to start PHC-3 and the PHC-3 Stantuping the PHC-3 in manual mode.	40002.0.201	Sensor Fault 2 - INIT FAIL	Sensor board fault.	Consult Sleipner dealer.
40003.0.202 Sensor Fault 3 - READ FAIL Sensor board fault. 40004.0.24 PHC-3 - Fault Detected fault on PHC-3 40004.0.100 PHC-3 - No Communication PHC-3 communication lost for more than 500ms. Check if PHC-3 is powered and is working Check S-Link cabling Check if PHC-3 is able to build up the pressure. Check PHC-3 faults for more information. Check PHC-3 faults for more information. Check PHC-3 system pressure reading when PTO is not running against PHC-3 system pressure sensor. Trigger when the SCU attempts to start PHC-3 and the PHC-3 Stop running the PHC-3 in manual mode.	40002.0.202	Sensor Fault 2 - READ FAIL	Sensor board fault.	Consult Sleipner dealer.
40004.0.24 PHC-3 - Fault Detected fault on PHC-3 40004.0.100 PHC-3 - No Communication PHC-3 communication lost for more than 500ms. Check PHC-3 is powered and is working Check S-Link cabling 40004.0.200 PHC-3 - Timeout PHC-3 startup timed out. Trigger when startup takes longer than 60 seconds Trigger when the SCU attempts to start PHC-3 and the PHC-3 Stop running the PHC-3 in manual mode.	40003.0.201	Sensor Fault 3 - INIT FAIL	Sensor board fault.	Consult Sleipner dealer.
4004.0.100 PHC-3 - No Communication PHC-3 communication lost for more than 500ms. Check if PHC-3 is powered and is working Check S-Link cabling Check if PHC-3 is able to build up the pressure. Check PHC-3 faults for more information. Check PHC-3 faults for more information. Check PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 system pressure sensor.	40003.0.202	Sensor Fault 3 - READ FAIL	Sensor board fault.	•
40004.0.200 PHC-3 - No Communication PHC-3 communication lost for more than Soums. Check S-Link cabling PHC-3 - No Communication PHC-3 communication lost for more than Soums. Check if PHC-3 is able to build up the pressure. Check PHC-3 faults for more information. Check PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 system pressure sensor. 40004.0.210 PHC-3 - Service Mode. Trigger when the SCU attempts to start PHC-3 and the PHC-3. Startuping the PHC-3 in manual mode.	40004.0.24	PHC-3 - Fault	Detected fault on PHC-3	
PHC-3 - Timeout PHC-3 - Timeout PHC-3 startup timed out. Trigger when startup takes longer than 60 seconds PHC-3 startup timed out. Trigger when startup takes longer than 60 seconds PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL. Check PHC-3 system pressure sensor. Trigger when the SCU attempts to start PHC-3 and the PHC-3 Stop running the PHC-3 in manual mode.	40004.0.100	PHC-3 - No Communication	PHC-3 communication lost for more than 500ms.	
	40004.0.200	PHC-3 - Timeout		Check PHC-3 faults for more information. Check PHC-3 system pressure reading when PTO is not running against PHC-3 parameter 1009-PTO PUMP PRESSURE DETECT LEVEL.
	40004.0.210	PHC-3 - Service Mode	Trigger when the SCU attempts to start PHC-3 and the PHC-3 is running in manual mode.	Stop running the PHC-3 in manual mode

Fault Code	Description	Cause	Action
40006.0.24	Sensor Fault 4 - Fault	Sensor board fault.	Consult Sleipner dealer.
40006.0.150	Sensor Fault 4 - ID Fault	Sensor board fault.	Consult Sleipner dealer.
40006.0.151	Sensor Fault 4 - Self-Test Fault	Sensor board fault.	Consult Sleipner dealer.
40006.0.203	Sensor Fault 4 - Not Calibrated	Sensor board fault.	Consult Sleipner dealer.
40007.0.100	Sensor Fault 5 - No Communication	Sensor board fault.	Consult Sleipner dealer.
40007.0.150	Sensor Fault 5 - ID Fault	Sensor board fault.	Consult Sleipner dealer.
40008.0.24	Sensor Fault 6 - Fault	Sensor board fault.	Consult Sleipner dealer.
40008.0.206	Sensor Fault 6 - WRITE FAIL	Internal EEPROM error.	- If problem persist, consult Sleipner dealer.
40009.0.150	Sensor Fault 7 - ID Fault	Sensor board fault.	Consult Sleipner dealer.
40009.0.151	Sensor Fault 7 - Self-Test Fault	Sensor board fault.	Consult Sleipner dealer.
40010.0.150	Sensor Fault 8 - ID Fault	Sensor board fault.	Consult Sleipner dealer.
40011.0.150	Sensor Fault 11 - ID Fault	Sensor board fault.	Consult Sleipner dealer.
40012.100.51	FIN Current Fin Port Current High	Current to fin Port (Front Port if 4-fin system) is too high. Trigger at 10A.	Check cabling between SCU and fin for short circuit.
40012.101.51	FIN Current Fin Starboard Current High	Current to fin Starboard (Front Starboard if 4-fin system) is too high. Trigger at 10A.	Check cabling between SCU and fin for short circuit.
40012.102.51	FIN Current Fin Rear Port Current High	Current to fin Rear Port is too high. Trigger at 10A.	Check cabling between SCU and fin for short circuit.
40012.103.51	FIN Current Fin Rear Starboard Current High	Current to fin Rear Starboard is too high. Trigger at 10A.	Check cabling between SCU and fin for short circuit.
40013.0.200	Gateway - Timeout	No GPS signal, GW-1 not detected on the bus for 3 seconds.	-Check if GW-1 status is ok by checking the GW-1 status LED (See GW-1 user manual) Check cabling
45000.100.21	FIN Tuning Fin Port Failed	Tuning sequence has failed on fin Port (Front Port if 4-fin system). Trigger if fin movement is less than 50 degrees.	Run bleeding to get rid of air in the hydraulic system Check encoder belt and pulleys.
45000.101.21	FIN Tuning Fin Starboard Failed	Tuning sequence has failed on fin Starboard (Front Starboard if 4-fin system). Trigger if fin movement is less than 50 degrees.	Run bleeding to get rid of air in the hydraulic system Check encoder belt and pulleys.
45000.102.21	FIN Tuning Fin Rear Port Failed	Tuning sequence has failed on fin Rear Port. Trigger if fin movement is less than 50 degrees.	Run bleeding to get rid of air in the hydraulic system Check encoder belt and pulleys.
45000.103.21	FIN Tuning Fin Rear Starboard Failed	Tuning sequence has failed on fin Rear Starboard. Trigger if fin movement is less than 50 degrees.	Run bleeding to get rid of air in the hydraulic system Check encoder belt and pulleys.
45001.100.21	FIN Encoder Fin Port Failed	Encoder fault on fin Port (Front Port if 4-fin system).	Run bleeding to get rid of air in the hydraulic system Check encoder belt and pulleys. Check if something is blocking the actuators Check if all the hydraulics mounted correctly to the actuators. Check if a PHC-3 fault is present.
45001.100.22	FIN Encoder Fin Port Out of position	Encoder position on fin Port (Front Port if 4-fin system) is outside the end stop position.	Run the detect end stop sequence. Check encoder belt and pulleys. Consult Sleipner dealer
45001.100.24	FIN Encoder Fin Port Fault	Encoder failure on fin Port (Front Port if 4-fin system), unable to establish correct position.	Verify that encoder was installed correctly.
45001.100.209	FIN Encoder Fin Port MOTION FAULT	Encoder position does not change on Starboard (Front Starboard if 4-fin system) fin.	Check encoder belt, encoder cable or if the fin is locked in one position.
45001.101.21	FIN Encoder Fin Starboard Failed	Encoder fault on fin Starboard (Front Starboard if 4-fin system).	Run bleeding to get rid of air in the hydraulic system Check encoder belt and pulleys. Check if something is blocking the actuators Check if all the hydraulics mounted correctly to the actuators. Check if a PHC-3 fault is present.
45001.101.22	FIN Encoder Fin Starboard Out of position	Encoder position on fin Starboard (Front Starboard if 4-fin system) is outside the end stop position.	Run the detect end stop sequence. Check encoder belt and pulleys. Consult Sleipner dealer
45001.101.24	FIN Encoder Fin Starboard Fault	Encoder failure on fin Starboard (Front Starboard if 4-fin system), unable to establish correct position.	Verify that encoder was installed correctly.
45001.101.209	FIN Encoder Fin Starboard MOTION FAULT	Encoder position does not change on Port (Front Port if 4-fin system) fin,	Check encoder belt, encoder cable or if the fin is locked in one position.
45001.102.21	FIN Encoder Fin Rear Port Failed	Encoder fault on fin Rear Port.	Run bleeding to get rid of air in the hydraulic system Check encoder belt and pulleys. Check if something is blocking the actuators Check if all the hydraulics mounted correctly to the actuators. Check if a PHC-3 fault is present.
45001.102.22	FIN Encoder Fin Rear Port Out of position	Encoder position on fin Rear Port is outside the end stop position.	Run the detect end stop sequence. Check encoder belt and pulleys. Consult Sleipner dealer
45001.102.24	FIN Encoder Fin Rear Port Fault	Encoder failure on fin Rear Port, unable to establish correct position.	Verify that encoder was installed correctly.
45001.102.209	FIN Encoder Fin Rear Port MOTION FAULT	Encoder position does not change on Rear Starboard fin.	Check encoder belt, encoder cable or if the fin is locked in one position.
45001.103.21	FIN Encoder Fin Rear Starboard Failed	Encoder fault on fin Rear Starboard.	Run bleeding to get rid of air in the hydraulic system Check encoder belt and pulleys. Check if something is blocking the actuators Check if all the hydraulics mounted correctly to the actuators. Check if a PHC-3 fault is present.

Fault Code	Description	Cause	Action
45001.103.22	FIN Encoder Fin Rear Starboard Out of position	Encoder position on fin Rear Starboard is outside the end stop position.	Run the detect end stop sequence. Check encoder belt and pulleys. Consult Sleipner dealer
45001.103.24	FIN Encoder Fin Rear Starboard Fault	Encoder failure on fin Rear Starboard, unable to establish correct position.	Verify that encoder was installed correctly.
45001.103.209	FIN Encoder Fin Rear Starboard MOTION FAULT	Encoder position does not change on Rear Port fin.	Check encoder belt, encoder cable or if the fin is locked in one position.
45003.100.200	FIN Communication Fin Port Timeout	Fin Port (Front Port if 4-fin system) communication lost. Trigger if no fin is detected for 25 seconds at startup or after 1.5 seconds with no communication during normal operation.	Check cabling between SCU and fin.
45003.101.200	FIN Communication Fin Starboard Timeout	Fin Starboard (Front Starboard if 4-fin system) communication lost. Trigger if no fin is detected for 25 seconds at startup or after 1.5 seconds with no communication during normal operation.	Check cabling between SCU and fin.
45003.102.200	FIN Communication Fin Rear Port Timeout	Fin Rear Port communication lost. Trigger if no fin is detected for 25 seconds at startup or after 1.5 seconds with no communication during normal operation.	Check cabling between SCU and fin.
45003.103.200	FIN Communication Fin Rear Starboard Timeout	Fin Rear Starboard communication lost. Trigger if no fin is detected for 25 seconds at startup or after 1.5 seconds with no communication during normal operation	Check cabling between SCU and fin.
45004.100.200	FIN Position control Fin Port Timeout	SCU did not send a new position reference to the Port (Front Port if 4-fin system) within the timeout window.	Look at secondary faults for cause.
45004.100.200	FIN Position control Fin Port Timeout	Fin did not receive a new position setpoint within the expected timeframe.	Verify the canbus bus between the SCU and fin controller is properly terminated and is properly connected.
45004.101.200	FIN Position control Fin Starboard Timeout	SCU did not send a new position reference to the Starboard (Front Starboard if 4-fin system) within the timeout window.	Look at secondary faults for cause.
45004.102.200	FIN Position control Fin Rear Port Timeout	SCU did not send a new position reference to the Rear Port fin within the timeout window.	Look at secondary faults for cause.
45004.103.200	FIN Position control Fin Rear Starboard Timeout	SCU did not send a new position reference to the Rear Starboard fin within the timeout window.	Look at secondary faults for cause.
45006.100.13	FIN Proportional Valve 1 Fin Port Open Circuit	No current detected through the valve when the valve is turned on.	-Check for open circuit
45006.100.51	FIN Proportional Valve 1 Fin Port Current High	Current through valve is too high. Trigger at 3.75A	-check for short circuit
45006.101.13	FIN Proportional Valve 1 Fin Starboard Open Circuit	No current detected through the valve when the valve is turned on.	-Check for open circuit
45006.101.51	FIN Proportional Valve 1 Fin Starboard Current High	Current through valve is too high. Trigger at 3.75A	-check for short circuit
45006.102.13	FIN Proportional Valve 1 Fin Rear Port Open Circuit	No current detected through the valve when the valve is turned on.	-Check for open circuit
45006.102.51	FIN Proportional Valve 1 Fin Rear Port Current High	Current through valve is too high. Trigger at 3.75A	-check for short circuit
45006.103.13	FIN Proportional Valve 1 Fin Rear Starboard Open Circuit	No current detected through the valve when the valve is turned on.	-Check for open circuit
45006.103.51	FIN Proportional Valve 1 Fin Rear Starboard Current High	Current through valve is too high. Trigger at 3.75A	-check for short circuit
45007.100.13	FIN Proportional Valve 2 Fin Port Open Circuit	No current detected through the valve when the valve is turned on.	-Check for open circuit
45007.100.51	FIN Proportional Valve 2 Fin Port Current High	Current through valve is too high. Trigger at 3.75A	-check for short circuit
45007.101.13	FIN Proportional Valve 2 Fin Starboard Open Circuit	No current detected through the valve when the valve is turned on.	-Check for open circuit
45007.101.51	FIN Proportional Valve 2 Fin Starboard Current High	Current through valve is too high. Trigger at 3.75A	-check for short circuit
45007.102.13	FIN Proportional Valve 2 Fin Rear Port Open Circuit	No current detected through the valve when the valve is turned on.	-Check for open circuit
45007.102.51	FIN Proportional Valve 2 Fin Rear Port Current High	Current through valve is too high. Trigger at 3.75A	-check for short circuit
45007.103.13	FIN Proportional Valve 2 Fin Rear Starboard Open Circuit	No current detected through the valve when the valve is turned on.	-Check for open circuit
45007.103.51	FIN Proportional Valve 2 Fin Rear Starboard Current High	Current through valve is too high. Trigger at 3.75A	-check for short circuit
45010.100.200	FIN Centering normal Fin Port Timeout	Fin Port (Front Port if 4-fin system) failed to normal-center.	Check for hydraulic problems (if PHC-3 system). Verify encoder installed correctly.
45010.101.200	FIN Centering normal Fin Starboard Timeout	Fin Starboard (Front Starboard if 4-fin system) failed to normal-center.	Check for hydraulic problems (if PHC-3 system). Verify encoder installed correctly.
45010.102.200	FIN Centering normal Fin Rear Port Timeout	Fin Rear Port failed to normal-center.	Check for hydraulic problems (if PHC-3 system). Verify encoder installed correctly.
45010.103.200	FIN Centering normal Fin Rear Starboard Timeout	Fin Rear Starboard failed to normal-center.	Check for hydraulic problems (if PHC-3 system). Verify encoder installed correctly.
45011.100.200	FIN Centering fast Fin Port Timeout	Fin Port (Front Port if 4-fin system) failed to fast-center.	Check for hydraulic problems (if PHC-3 system). Verify encoder installed correctly.
45011.101.200	FIN Centering fast Fin Starboard Timeout	Fin Starboard (Front Starboard if 4-fin system) failed to fast-center.	Check for hydraulic problems (if PHC-3 system). Verify encoder installed correctly.
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Fault Code	Description	Cause	Action
45011.102.200	FIN Centering fast Fin Rear Port Timeout	Fin Rear Port failed to fast-center.	Check for hydraulic problems (if PHC-3 system). Verify encoder installed correctly.
45011.103.200	FIN Centering fast Fin Rear Starboard Timeout	Fin Rear Starboard failed to fast-center.	Check for hydraulic problems (if PHC-3 system). Verify encoder installed correctly.
45012.100.200	FIN FW upgrade Fin Port Timeout	SCU failed to upgrade the firmware on fin Port (Front Port if 4-fin system).	Check cabling between SCU and fin. Consult Sleipner dealer.
45012.101.200	FIN FW upgrade Fin Starboard Timeout	SCU failed to upgrade the firmware on fin Starboard (Front Starboard if 4-fin system).	Check cabling between SCU and fin. Consult Sleipner dealer.
45012.102.200	FIN FW upgrade Fin Rear Port Timeout	SCU failed to upgrade the firmware on fin Rear Port.	Check cabling between SCU and fin. Consult Sleipner dealer.
45012.103.200	FIN FW upgrade Fin Rear Starboard Timeout	SCU failed to upgrade the firmware on fin Rear Starboard.	Check cabling between SCU and fin. Consult Sleipner dealer.
45013.100.13	FIN Float valve Fin Port Open Circuit	No current detected through float valve on Port (Front Port if 4-fin system) fin when the valve is turned on.	-Check for open circuit
45013.100.16	FIN Float valve Fin Port Short Circuit	Current through float valve is too high on Port (Front Port if 4-fin system) fin. Trigger at 1.5A	Check for short-circuit.
45013.101.13	FIN Float valve Fin Starboard Open Circuit	No current detected through float valve on Starboard (Front Starboard if 4-fin system) when the valve is turned on.	Check for open-circuit.
45013.101.16	FIN Float valve Fin Starboard Short Circuit	Current through float valve is too high on Starboard (Front Starboard if 4-fin system) fin. Trigger at 1.5A	Check for short-circuit.
45013.102.13	FIN Float valve Fin Rear Port Open Circuit	No current detected through float valve on Rear Port fin when the valve is turned on.	Check for open-circuit.
45013.102.16	FIN Float valve Fin Rear Port Short Circuit	Current through float valve is too high on Rear Port fin. Trigger at 1.5A	Check for short-circuit.
45013.103.13	FIN Float valve Fin Rear Starboard Open Circuit	No current detected through float valve on Rear Starboard fin when the valve is turned on.	Check for open-circuit.
45013.103.16	FIN Float valve Fin Rear Starboard Short Circuit	Current through float valve is too high on Rear Starboard fin. Trigger at 1.5A	Check for short-circuit.
45014.100.13	FIN Lock valve Fin Port Open Circuit	No current detected through lock valve on Port (Front Port if 4-fin system) when the valve is turned on.	Check for open-circuit.
45014.100.16	FIN Lock valve Fin Port Short Circuit	Current through lock valve is too high on Port (Front Port if 4-fin system) fin. Trigger at 1.5A	Check for short-circuit.
45014.101.13	FIN Lock valve Fin Starboard Open Circuit	No current detected through lock valve on Starboard (Front Starboard if 4-fin system) fin when the valve is turned on.	Check for open-circuit.
45014.101.16	FIN Lock valve Fin Starboard Short Circuit	Current through lock valve is too high on Starboard (Front Starboard if 4-fin system) fin. Trigger at 1.5A	Check for short-circuit.
45014.102.13	FIN Lock valve Fin Rear Port Open Circuit	No current detected through lock valve on Rear Port fin when the valve is turned on.	-Check for open circuit
45014.102.16	FIN Lock valve Fin Rear Port Short Circuit	Current through lock valve is too high on Rear Port fin. Trigger at 1.5A	Check for short-circuit.
45014.103.13	FIN Lock valve Fin Rear Starboard Open Circuit	No current detected through lock valve on Rear Starboard fin when the valve is turned on.	Check for open-circuit.
45014.103.16	FIN Lock valve Fin Rear Starboard Short Circuit	Current through lock valve is too high on Rear Starboard fin. Trigger at 1.5A	Check for short-circuit.
45030.100.21	FIN Controller Fin Port Failed	Internal software error for Port (Front Port for 4-fin systems) fin.	- If problem persist, consult Sleipner dealer.
45030.100.24	FIN Controller Fin Port Fault	Motor controller fault in Port (Front Port for 4-fin systems) fin.	- If problem persist, consult Sleipner dealer.
45030.100.100	FIN Controller Fin Port No Communication	Fin Port (Front Port for 4-fin systems) lost communication with stabilizing controller.	Verify the canbus bus between the SCU and fin controller is properly terminated and is properly connected.
45030.100.103	FIN Controller Fin Port Following Error	Fin controller for Port (Front Port for 4-fin systems) failed to meet position requirements sent by the stabilizing controller, likely due to mechanical resistance.	Verify it happens under less mechanical resistance. If problem persist, consult Sleipner dealer.
45030.100.201	FIN Controller Fin Port INIT FAIL	Fin controller for Port (Front Port if 4-fin system) failed during init.	Consult Sleipner dealer.
45030.100.209	FIN Controller Fin Port MOTION FAULT	Fin fails to stop movement.	Check cabling and encoder installation.
45030.101.21	FIN Controller Fin Starboard Failed	Internal software error for Starboard (Front Starboard for 4-fin systems) fin.	- If problem persist, consult Sleipner dealer.
45030.101.24	FIN Controller Fin Starboard Fault	Motor controller fault in Starboard (Front Starboard for 4-fin systems) fin.	- If problem persist, consult Sleipner dealer.
45030.101.100	FIN Controller Fin Starboard No Communication	Fin Startboard (Front Starboard for 4-fin systems) lost communication with stabilizing controller.	Verify the canbus bus between the SCU and fin controller is properly terminated and is properly connected.
45030.101.103	FIN Controller Fin Starboard Following Error	Fin controller for Starboard (Front Starboard for 4-fin systems) failed to meet position requirements sent by the stabilizing controller, likely due to mechanical resistance.	Verify it happens under less mechanical resistance. If problem persist, consult Sleipner dealer.
45030.101.201	FIN Controller Fin Starboard INIT FAIL	Fin controller for Starboard (Front Starboard if 4-fin system) failed during init.	Consult Sleipner dealer.

Fault Code	Description	Cause	Action
45030.102.21	FIN Controller Fin Rear Port Failed	Internal software error for Rear Port fin.	- If problem persist, consult Sleipner dealer.
45030.102.24	FIN Controller Fin Rear Port Fault	Motor controller fault in Rear Port fin.	- If problem persist, consult Sleipner dealer.
45030.102.100	FIN Controller Fin Rear Port No Communication	Fin Rear Port lost communication with stabilizing controller.	Verify the canbus bus between the SCU and fin controller is properly terminated and is properly connected.
45030.102.103	FIN Controller Fin Rear Port Following Error	Fin controller for Rear Port failed to meet position requirements sent by the stabilizing controller, likely due to mechanical resistance.	Verify it happens under less mechanical resistance. If problem persist, consult Sleipner dealer.
45030.102.201	FIN Controller Fin Rear Port INIT FAIL	Fin controller for Rear Port failed during init.	Consult Sleipner dealer.
45030.103.21	FIN Controller Fin Rear Starboard Failed	Internal software error for Rear Starboard fin.	- If problem persist, consult Sleipner dealer.
45030.103.24	FIN Controller Fin Rear Starboard Fault	Motor controller fault in Rear Starboard fin.	- If problem persist, consult Sleipner dealer.
45030.103.100	FIN Controller Fin Rear Starboard No Communication	Fin Rear Starboard lost communication with stabilizing controller.	Verify the canbus bus between the SCU and fin controller is properly terminated and is properly connected.
45030.103.103	FIN Controller Fin Rear Starboard Following Error	Fin controller for Rear Starboard failed to meet position requirements sent by the stabilizing controller, likely due to mechanical resistance.	Verify it happens under less mechanical resistance. If problem persist, consult Sleipner dealer.
45030.103.201	FIN Controller Fin Rear Starboard INIT FAIL	Fin controller for Rear Starboard failed during init.	Consult Sleipner dealer.
45031.100.16	FIN Motor Fin Port Short Circuit	Motor short circuit (overcurrent) on fin Port (Front Port on 4-fin systems).	Consult Sleipner dealer.
45031.101.16	FIN Motor Fin Starboard Short Circuit	Motor short circuit (overcurrent) on fin Starboard (Front Starboard on 4-fin systems).	Consult Sleipner dealer.
45031.102.16	FIN Motor Fin Rear Port Short Circuit	Motor short circuit (overcurrent) on fin Rear Port.	Consult Sleipner dealer.
45031.103.16	FIN Motor Fin Rear Starboard Short Circuit	Motor short circuit (overcurrent) on fin Rear Starboard.	Consult Sleipner dealer.
45032.100.209	FIN Set Keel Fin Port MOTION FAULT	Tried to set home while fin was moving.	Try again, if it keeps failing, remove load from fin (like water currents).

PHC-3 Fault Codes

Fault Code	Fault Name	Fault Description	Action
106.202.0	Emergency Stop Bow -	Bow emergency stop is button activated	-Release bow emergency stop
106.203.0	Emergency Stop Bow Starboard -	Bow Starboard emergency stop is button activated	-Release bow starboard emergency stop
106.204.0	Emergency Stop Bow Port -	Bow Port emergency stop is button activated	-Release bow port emergency stop
106.205.0	Emergency Stop Stern -	Stern emergency stop is button activated	-Release stern emergency stop
106.206.0	Emergency Stop Stern Starboard -	Stern Starboard emergency stop is button activated	-Release stern starboard emergency stop
106.207.0	Emergency Stop Stern Port -	Stern Port emergency stop is button activated	-Release stern port emergency stop
10500.0.10	PHC Oil Level - Level Low	Hydraulic oil level is low	-Limit use of thruster -Inspect hydraulic oil level -Check system for leaks and refill hydraulic oil
10500.0.13	PHC Oil Level - Open Circuit	Analog oil level sensor open circuit	-Sensor not connected or wire breakVerify sensor type in parameter 0201 -Disconnect sensor and measure that sensor resistance value is in range 0-180ohm.
10501.0.11	PHC Oil Temp - Level High	Oil temperature higher than 75°C (167°F)	-Limit use of thruster to prevent temperature to rise. -Check if cooling pump is running and there is cooling water flow. -Inspect seawater filter -Verify that cooling pump is enabled in parameter 0301
10501.0.13	PHC Oil Temp - Open Circuit	Analog oil temp sensor open circuit	-Sensor not connected or wire break Disconnect sensor and measure that sensor resistance value is in range 104ohm-147Kohm -Wrong sensor is defined in parameter 0201
10501.0.16	PHC Oil Temp - Short Circuit	Analog oil temp input short circuit	-Input shorted to GND, check wiring/sensor -Disconnect sensor and measure that sensor resistance value is in range 104ohm-147Kohm
10501.0.55	PHC Oil Temp - Overtemp	Hydraulic oil temperature has been higher than 120°C (248°F).	-Wait for oil temperature to cool down. -Check oil level and refill if level is low. -Check if cooling pump is running. -Check if cooling system gets water
10502.0.13	PHC Stabilizer Pressure - Open Circuit	Stabilizer pressure sensor open circuit	-Sensor not connected or wire break. -System incorrectly configured with stabilizer, parameter 1001 -Replace sensor
10502.0.16	PHC Stabilizer Pressure - Short Circuit	Stabilizer pressure sensor short circuit	-Wires shorted or sensor defective, check wiring/sensor -Replace sensor
10502.0.19	PHC Stabilizer Pressure - Under Limit	Stabilizer pressure has dropped below 20bar.	-Check accumulator charge pressure -Check PTO pressure (if PTO powered) -Check system for oil leaks -Check generator power supply to the VFD (is VFD motor speed maximum when pressure alarming low)
10502.0.20	PHC Stabilizer Pressure - Over Limit	Stabilizer pressure is higher than: parameter 1013 PTO OVER-PRESSURE FAULT LEVEL running from PTO (FW V1.029 an older, set point + 30bar running from PTO) or set point + 15bar running from AC motor	-Check Parameter 1013 PTO OVER-PRESSURE FAULT LEVEL -Check PTO pressure setting -Check accumulator charge pressure -Check unload valve operation
10502.0.26	PHC Stabilizer Pressure - VALUE MAX	Stabilizer pressure reached sensor max value.	-Check that correct sensor is fitted -Check that sensor range parameter 1010 match the sensor -Check PTO pressure setting
10502.0.200	PHC Stabilizer Pressure - Timeout	Stabilizer pressure has not reached 60% of set point parameter 1003 after 30sec.	-Check pump feed shutoff valve. -Check PTO pressure (if PTO powered) -Check system for oil leaks
10503.0.13	PHC System Pressure - Open Circuit	System pressure sensor open circuit	-Sensor not connected or wire break. -Verify system pressure, parameter 0104
10503.0.16	PHC System Pressure - Short Circuit	System pressure sensor short circuit	-Wires shorted or sensor defective, check wiring/sensor -Replace sensor
10504.0.13	PHC AI 1 - Open Circuit	Analog Input 1 (4-20mA) sensor open circuit	-Sensor not connected or wire break.
10504.0.16	PHC AI 1 - Short Circuit	Analog Input 1 (4-20mA) sensor short circuit	-Wires shorted or sensor defective, check wiring/sensor -Replace sensor
10505.0.13	PHC AI 2 - Open Circuit	Analog Input 2 (4-20mA) sensor open circuit	-Sensor not connected or wire break.
10505.0.16	PHC AI 2 - Short Circuit	Analog Input 2 (4-20mA) sensor short circuit	-Wires shorted or sensor defective, check wiring/sensor -Replace sensor
10508.0.13	PHC DOUT AC PUMP UNLOAD - Open Circuit	AC Pump Unload valve open circuit	-Check for open circuit, power consumption < 5.0 Watt -System incorrectly configured with stabilizer, parameter 1001
10508.0.51	PHC DOUT AC PUMP UNLOAD - Current High	AC Pump Unload valve current higher than 4.0A	-Check wires and connections for short circuit
10509.0.13	PHC DOUT ACCUMULATOR DUMP - Open Circuit	Accumulator Dump valve open circuit	-Check for open circuit, power < 5.0 Watt -System incorrectly configured with stabilizer, parameter 1001
10509.0.51	PHC DOUT ACCUMULATOR DUMP - Current High	Accumulator Dump valve current higher than 4.0A	-Check wires and connections for short circuit
10510.0.13	PHC DOUT STABILIZER - Open Circuit	Stabilizer valve open circuit	-Check for open circuit, power consumption < 5.0 Watt -System incorrectly configured with stabilizer, parameter 1001
10510.0.51	PHC DOUT STABILIZER - Current High	Stabilizer valve current higher than 4.0A	-Check wires and connections for short circuit
10511.0.13	PHC DOUT COOLING PUMP HYDRAULIC - Open Circuit	Hydraulic Cooling Pump valve open circuit	-Check for open circuit, power consumption < 5.0 Watt -Wrong cooling pump configured, parameter 0301
10511.0.51	PHC DOUT COOLING PUMP HYDRAULIC - Current High	Hydraulic Cooling Pump valve current higher than 4.0A	-Check wires and connections for short circuit

PHC-3 Fault Codes

Fault Code	Fault Name	Fault Description	Action
10512.0.13	PHC DOUT LS DUMP - Open Circuit	LS-Dump valve open circuit	-Check for open circuit, power consumption < 5.0 Watt
	,		-System wrong configured with thrusters, parameter 2001 or 2101
10512.0.51	PHC DOUT LS DUMP - Current High PHC DOUT PUMP #2 - Current High	LS-Dump valve current higher than 4.0A Pump #2 valve current higher than 4.0A	-Check wires and connections for short circuit -Check wires and connections for short circuit
10514.0.13	PHC DOUT 5 - Open Circuit	Digital Output 5 is configured as crossover and output is open	-Check for open circuit, power consumption < 5.0 Watt
		Circuit	-Output configured wrong, parameter 0505
10514.0.51	PHC DOUT 5 - Current High	Digital Output 5 current higher than 4.0A Digital Output 6 is configured as crossover and output is open	-Check wires and connections for short circuit -Check for open circuit, power consumption < 5.0 Watt
10515.0.13	PHC DOUT 6 - Open Circuit	circuit	-Output configured wrong, parameter 0506
10515.0.51	PHC DOUT 6 - Current High	Digital Output 6 current higher than 4.0A	-Check wires and connections for short circuit
10516.0.13	PHC DOUT 3 - Open Circuit	Digital Output 3 is configured as crossover and output is open circuit	-Check for open circuit, power consumption < 5.0 Watt -Output configured wrong, parameter 0503
10516.0.51	PHC DOUT 3 - Current High	Digital Output 3 current higher than 4.0A	-Check wires and connections for short circuit
10517.0.13	PHC DOUT 2 - Open Circuit	Digital Output 2 is configured as crossover and output is open circuit	-Check for open circuit, power consumption < 5.0 Watt -Output configured wrong, parameter 0502
10517.0.51	PHC DOUT 2 - Current High	Digital Output 2 current higher than 4.0A	-Check wires and connections for short circuit
10518.0.13	PHC DOUT 1 - Open Circuit	Digital Output 1 is configured as crossover and output is open circuit	-Check for open circuit, power consumption < 5.0 Watt -Output configured wrong, parameter 0501
10518.0.51	PHC DOUT 1 - Current High	Digital Output 1 current higher than 4.0A	-Check wires and connections for short circuit
10519.0.13	PHC DOUT 4 - Open Circuit	Digital Output 4 is configured as crossover and output is open circuit	-Check for open circuit, power consumption < 5.0 Watt -Output configured wrong, parameter 0504
10519.0.51	PHC DOUT 4 - Current High	Digital Output 4 current higher than 4.0A	-Check wires and connections for short circuit
10520.0.51	PHC ECI PUMP POWER FEED - Current High	ECI cooling pump power current higher than 8.0A	-Check pump cable for damage and short circuits -Make sure the connector on the cooling pump is correct insertedReplace cooling pump
10521.0.51	PHC Bow Thruster Power - Current High	Bow thruster PVG feed current higher than 3.0A	-Check PVG wires and connections for short circuit
10522.0.51	PHC Stern Thruster Power - Current High	Stern thruster PVG feed current higher than 3.0A	-Check PVG wires and connections for short circuit
10523.0.51	PHC Thruster Power - Current High	Bow or Stern PVG feed current higher than 3.3A	Check all bow and stern PVG signal wires for short circuits
10524.0.51	PHC ECI Cooling Pump - Current High	ECI cooling pump current higher than 13.0A	-Check ECI cooling pump cable for damage and short circuits -Replace ECI cooling pump
10524.0.53	PHC ECI Cooling Pump - Overvoltage	ECI cooling pump overvoltage, voltage higher than 33.0V	-Check PHC-3 input voltage is below 33.0V -Replace ECI cooling pump
10524.0.54	PHC ECI Cooling Pump - Undervoltage	ECI cooling pump under voltage, voltage is lower than 18.0V	-Check PHC-3 input voltage is higher than 18.0V -Replace ECI cooling pump
10524.0.55	PHC ECI Cooling Pump - Overtemp	ECI cooling pump temperature higher than 100°C (212°F).	-Check ECI cooling pump for damages -Replace ECI cooling pump
10524.0.100	PHC ECI Cooling Pump - No Communication	No communication with ECI cooling pump	-Check if ECI pump is connected -Check wires to ECI pump for open circuits -Check power supply cooling pump -Wrong cooling pump configured, parameter 0301
10524.0.205	PHC ECI Cooling Pump - HW FAULT	ECI cooling pump hardware fault	-Replace ECI cooling pump
10526.0.0	PHC ECI Cooling Pump Blocked	ECI cooling pump is blocked	-Reset fault and if fault reappears, cooling pump need service or replacement. -Check pump inlet for obstacles
10527.1.0	VFD Not Ready Instance 1 -	VFD not ready	-VFD external run enable/power available signal is lost.
10528.1.10	VFD Parameter Instance 1 Level Low	ABB ACS550 parameter values 2001 or 2002 cannot be a negative value.	-Check ABB ACS550 parameter 2001 and 2002.
10528.1.24	VFD Parameter Instance 1 Fault	VFD Parameters is wrong	-Check VFD parameter setup -Restore VFD parameter backup -Consult Sleipner dealer
10529.0.19	PHC ECI Cooling Pump Speed - Under Limit	ECI pump motor speed under limit. Motor speed is below 100 rpm, or not getting minimum 750 rpm within 3 seconds.	-Check hose for dirt -Check pump inlet for obstacles
10530.0.201	PHC PTO ENGINE INSTANCE - INIT FAIL	Parameter 1011-PTO ENGINE INSTANCE is not defined	-Set parameter 1011-PTO ENGINE INSTANCE
10531.0.100	CC MODULE - No Communication	No communication with CC Module	-Check if CC Module is connected -Check wires to CC Module for open circuits -Check power supply CC Module
10532.0.24	CC MODULE AC PUMP - Fault	The CC Module AC pump circuit is open and pump is not running	-Check if AC generator is running -Check if the AC pump contactor is tripped -Check wires to the pump for open circuit
10533.0.24	CC MODULE DC PUMP - Fault	The CC Module DC pump circuit is open and pump is not running	-Check if DC pump contactor has 24VDC -Check if the DC pump contactor is tripped -Check wires to the DC pump for open circuit
10600.202.208	Retract Controller Bow INTERLOCK	Retract Interlock Bow	-Check if retract is deployedNo communication with Retract Controller, check if Retract Controller has power and S-link communicationCheck PHC-3 and Retract Controller for correct setup.
10600.203.208	Retract Controller Bow Starboard INTERLOCK	Retract Interlock Bow Starboard	-Check if retract is deployedNo communication with Retract Controller, check if Retract Controller has power and S-link communicationCheck PHC-3 and Retract Controller for correct setup.

PHC-3 Fault Codes

Fault Code	Fault Name	Fault Description	Action
10600.204.208	Retract Controller Bow Port INTERLOCK	Retract Interlock Bow Port	-Check if retract is deployedNo communication with Retract Controller, check if Retract Controller has power and S-link communicationCheck PHC-3 and Retract Controller for correct setup.
10600.205.208	Retract Controller Stern INTERLOCK	Retract Interlock Stern	-Check if retract is deployedNo communication with Retract Controller, check if Retract Controller has power and S-link communicationCheck PHC-3 and Retract Controller for correct setup.
10600.206.208	Retract Controller Stern Starboard INTERLOCK	Retract Interlock Stern Starboard	-Check if retract is deployedNo communication with Retract Controller, check if Retract Controller has power and S-link communicationCheck PHC-3 and Retract Controller for correct setup.
10600.207.208	Retract Controller Stern Port INTERLOCK	Retract Interlock Stern Port	-Check if retract is deployedNo communication with Retract Controller, check if Retract Controller has power and S-link communicationCheck PHC-3 and Retract Controller for correct setup.
36000.1.24	ABB ACS550 FAULT Instance 1 Fault	ABB ACS550 fault	Se ABB ACS550 drive for more details
36002.1.24	VACON FAULT Instance 1 Fault	VACON VFD Fault	Se VACON drive for more details
36003.1.24	ABB ACS580 FAULT Instance 1 Fault	ABB ACS580 fault	Se ABB ACS580 drive for more details
36004.1.24	EHP FAULT Instance 1 Fault	EHP Fault	-See fault from EHP for more details
36005.1.0	ABB ACS580 WARNING Instance 1 -	ABB ACS580 has stopped with a warning	-Upload Fault Codes from S-Link Programmer and consult Sleipner dealer
36100.1.0	VFD Instance 1 -	VFD stopped operation	-Upload Fault Codes from S-Link Programmer and consult Sleipner dealer
36100.1.100	VFD Instance 1 No Communication	Lost communication with VFD	-VFD not powered up -VFD communication cable not connected or incorrectly wired -On the VFD make sure the RS485 BUS TERMINATION is in ON position
36103.1.0	VFD IN LOCAL Instance 1 -	VFD in local mode	-Switch VFD to remote mode
36104.1.0	VFD DC Undervoltage Instance 1 -	VFD has stopped with a DC undervoltage warning	-Check VFD supply voltage when system is running -Check power supply capacity against load requirement -Validate Power Management System
36105.1.0	VFD Run Enable Missing Instance 1 -	VFD Lost Run Enable signal	-Check Run Enable signal input on VFD
36106.1.0	VFD Start Failed Instance 1 -	Motor is not starting to run	-Check VFD parameter setup -Consult Sleipner dealer

PDC-301 Fault Codes

Fault Code	Description	Cause	Action
106.1.0	Emergency Stop Instance 1 -	Drive in Emergency STOP. Safety circuit signal(s) connected to connector STO or Emergency stop digital input is open.	-Check Emergency stop button. -Check safety circuit connections to STO connector on the drive. -Check Emergency stop digital input connection on the drive.
10600.0.208	Retract Controller - INTERLOCK	Retract Interlock	-Check if retract is deployedNo communication with Retract Controller, check if Retract Controller has powerCheck PDC-301 and Retract Controller setup.
36100.1.24	VFD Instance 1 Fault	VFD faulted	-See VFD for more information
36100.1.100	VFD Instance 1 No Communication	PDC-301 has no MODBUS communication with VFD.	-Check communication cable with VFD -Check if VFD has power
36101.1.200	VFD PMS Instance 1 Timeout	VFD is not ready within 60 after power request.	-Check if VFD has power
36101.1.204	VFD PMS Instance 1 SIGNAL LOST	Lost Power Management signal from VFD, VFD not available anymore.	-Check VFD for more information.
36103.1.0	VFD IN LOCAL Instance 1 -	VFD in Local or Hand Mode	-Change mode in VFD panel.

eVision and EHP Fault Codes

Fault Code	Description	Cause	Action
100.0.0	System Error	Internal error	-Consult Sleipner dealer.
107.0.24	Bootloader fault code - Fault	Bootloader failed upgrading.	-Check S-link cables and T-connectorsIf problem persist, consult Sleipner dealer.
155.0.24	Internal Voltage - Fault	Internal error	-If problem persist, consult Sleipner dealer.
10000.106.55	Motor Temp - Overtemp	Stator over temperature	-Wait for motor to cool down
10002.0.13	Stator Temperature - Open Circuit	Stator temperature sensor not connected	-If problem persist, consult Sleipner dealer.
10002.0.16	Stator Temperature - Short Circuit	Stator temperature sensor short circuit	-If problem persist, consult Sleipner dealer.
10003.0.13	Transistor Temperature - Open Circuit	Transistor temperature sensor not connected	-If problem persist, consult Sleipner dealer.
10003.0.16	Transistor Temperature - Short Circuit	Transistor temperature sensor short circuit	-If problem persist, consult Sleipner dealer.
10101.106.55	Device CPU Temp - Overtemp	Main MCU temperature above max limit	-Wait for motor to cool down
10101.107.55	Device CPU Temp - Overtemp	Motor MCU temperature above max limit	-Wait for motor to cool down.
10102.106.55	Device Board Temperature - Overtemp	Transistor over temperature	-Wait for motor to cool down
10104.106.24	Motor Speed - Fault	Motor speed outside valid range.	-Check propeller blades and flexible coupling
10104.107.212	Motor Speed - Overspeed	Motor speed outside valid range	-Check propeller blades and flexible coupling -If not resolved consult Sleipner represen- tative.
10200.106.53	System Voltage - Overvoltage	Main MCU temperature above max limit	-Measure voltage at battery terminals and thruster terminals.
10200.106.54	System Voltage - Undervoltage	Motor supply voltage below min limit	-Measure voltage at battery terminals and thruster terminals.
10200.107.53	System Voltage - Overvoltage	Motor supply voltage above max limit	-Measure voltage at battery terminals and thruster terminals.
10200.107.54	System Voltage - Undervoltage	Motor supply voltage below min limit	-Measure voltage at battery terminals and thruster terminals.
10301.0.19	Motor Position - Under Limit	Encoder magnitude under limit	-If problem persist, consult Sleipner dealer.
10301.0.20	Motor Position - Over Limit	Encoder magnitude over limit	-If problem persist, consult Sleipner dealer.
10301.0.100	Motor Position - No Communication	Communication with speed sensor failed	-If problem persist, consult Sleipner dealer.
10301.107.212	Motor Position - Overspeed	Motor fails to stop correctly	-If problem persist, consult Sleipner dealer.
10302.107.24	uC Communication - Fault	Communication between internal MCUs failed	-If problem persist, consult Sleipner dealer.
10302.107.100	uC Communication - No Communication	Communication between internal MCUs timeout	-If problem persist, consult Sleipner dealer.
10303.107.20	Motor Torque - Over Limit	Motor torque above max limit	-Check if propeller is obstructed. -If not resolved consult Sleipner dealer.
10600.0.24	Retract Controller - Fault	Fault detected on retract	-Check retract faults
10600.0.208	Retract Controller - INTERLOCK	Function or Location configuration does not match retract controller configuration	-Check configuration of installed devices.
30100.0.13	Thruster Motor Current - Open Circuit	Motor phase not connected.	-If problem persist, consult Sleipner dealer.
30100.0.203	Thruster Motor Current - Not Calibrated	-Internal current meassurement is not correct before startup.	-If problem persist, consult Sleipner dealer.
30100.107.57	Thruster Motor Current - Overcurrent	Measured motor phase current above max limit	-Check if propeller is blocked. -If not resolved consult Sleipner dealer.
60000.0.13	Main Fan - Open Circuit	Cooling fan temperature measurement open circuit	-If problem persist, consult Sleipner dealer.
60000.0.16	Main Fan - Short Circuit	Cooling fan temperature measurement short circuit	-If problem persist, consult Sleipner dealer.
60000.0.50	Main Fan - Current Low	Cooling fan current consumption below min limit	-If problem persist, consult Sleipner dealer.
60000.0.51	Main Fan - Current High	Cooling fan current consumption above max limit	-If problem persist, consult Sleipner dealer.
60000.0.53	Main Fan - Overvoltage	Cooling fan supply voltage above max limit	-If problem persist, consult Sleipner dealer.
60000.0.54	Main Fan - Undervoltage	Cooling fan supply voltage below min limit	-If problem persist, consult Sleipner dealer.
60000.0.55	Main Fan - Overtemp	Cooling fan power supply temperature above max limit	-Wait for motor to cool down
60000.0.211	Main Fan - Underspeed	Cooling fan speed below limit	-If problem persist, consult Sleipner dealer.
60000.0.212	Main Fan - Overspeed	Cooling fan speed above limit	-If problem persist, consult Sleipner dealer.

TP-35 Fault Codes

MC_0665

Fault Code	Fault Name	Fault Description	Action	
151.0.54	S-Link Power - Undervoltage	S-Link supply voltage below 9.0V or missing	Check S-Link power	
152.0.54	AUX Power - Undervoltage	AUX supply voltage below 9.0V or missing	Check AUX power	

Fault Code	Fault Name	Fault Description	Action	
100.0.24	System Error - Fault	Generic Software or configuration fault - Incorrect parameters set for PCU Should never happen unless an EEPROM fault occurs	Contact Sleipner dealer. Check fault string.	
106.0.24	Emergency Stop - Fault	PCUC Emergency Stop Triggered	Reset emergency stop button.	
106.0.151	Emergency Stop - Self-Test Fault	PCUC Emergency Stop Selftest Fail	Contact Sleipner dealer. Verify no shorts on the emergency stop circuit.	
10101.0.55	Device CPU Temp - Overtemp	PCUC Critical circuit board temperature - PCUC Circuit Board temperature sensor indicates high temperature which makes the system shut down to avoid damage or incorrect functional behaviour	Check that ships engine room temperature is within normal limits (< degrees C) - If problem persists, contact Sleipner dealer to discuss adding a PCL cabinet fan or similar.	
10101.0.56	Device CPU Temp - Warningtemp	PCUC Overtemperature - PCUC Circuit Board temperature sensor indicates high tempererature which may, if the temperture continues to rise, make the system shut down to avoid damage or incorrect functional behaviour	Check that ships engine room temperature is within normal limits (<55 degrees C) - If problem persists, contact Sleipner dealer to discuss adding a PCU cabinet fan or similar.	
10200.0.53	System Voltage - Overvoltage	PCUC has internal power supply (5V) Overvoltage. - Likely broken PCB component if only this fault occurs. - Can also be a loose/faulty connection between the PCUC and PCUM	Contact a Sleipner dealer if the fault does not go away despite clearing several times. - Check if 24V power-supply is nominal - Check internal wiring between PCUC and PCUM	
10200.0.54	System Voltage - Undervoltage	PCUC has internal power supply (5V) Undervoltage. - Likely broken PCB component if only this fault occurs. - Can also be a loose/faulty connection between the PCUC and PCUM	Contact a Sleipner dealer if the fault does not go away despite clearing several times. - Check if 24V power-supply is nominal - Check internal wiring between PCUC and PCUM	
10200.0.151	System Voltage - Self-Test Fault	PCUC 5V self-test timed out at startup. - Caused by 5V undervoltage at startup	Contact Sleipner dealer.	
10210.0.53	Operating Voltage - Overvoltage	Overvoltage on the 24V circuit.	Check 24V power supply.	
10210.0.54	Operating Voltage - Undervoltage	Undervoltage on the 24V circuit.	Check 24V power supply	
21000.0.101	Canal Controller Card - Bus Off	No activity detected on the PCUM serial-bus.	Check cabling for serial-bus. Verify 24V going to PCUM modules.	
21000.0.150	Canal Controller Card - ID Fault	Unknown PCUM RS485 bus-address Dipswitch likely set to wrong address.	Verify dipswitch addresses on the PCUM modules are correct.	
21000.1.53	Canal Controller Card Instance 1 Overvoltage	PCUM 1 has internal power supply (5V) Overvoltage. - Likely broken PCB component if only this fault occurs. - Can also be a loose/faulty connection between the PCUC and PCUM	Contact a Sleipner dealer if the fault does not go away despite clearing several times. - Check if 24V power-supply is nominal - Check internal wiring between PCUC and PCUM	
21000.1.54	Canal Controller Card Instance 1 Undervoltage	PCUM 1 has internal power supply (5V) undervoltage. - Likely broken PCB component if only this fault occurs. - Can also be a loose/faulty connection between the PCUC and PCUM	Contact a Sleipner dealer if the fault does not go away despite clearing several times. - Check if 24V power-supply is nominal - Check internal wiring between PCUC and PCUM	
21000.1.55	Canal Controller Card Instance 1 Overtemp	PCUM 1 circuit board critical temperature - PCUM 1 Circuit Board temperature sensor indicates high tempererature which shuts off the channel and thus opening the Channel 1 Contactor to avoid damage or incorrect functional behaviour.	Check that ships engine room temperature is within normal limits (<55 degrees C) - If problem persists, contact Sleipner dealer to discuss adding a PCU cabinet fan or similar.	
21000.1.100	Canal Controller Card Instance 1 No Communication	No communication with PCUM 1. - Can be an incorrect adress setting - Can also be a loose/faulty connection between the PCUC and PCUM 1	Contact a Sleipner dealer Verify dipswitch addresses set to correct value - Check internal wiring & connectors between PCUC and PCUM	
21000.2.53	Canal Controller Card Instance 2 Overvoltage	PCUM 2 has internal power supply (5V) Overvoltage. - Likely broken PCB component if only this fault occurs. - Can also be a loose/faulty connection between the PCUC and PCUM	Contact a Sleipner dealer if the fault does not go away despite clearing several times. - Check if 24V power-supply is nominal - Check internal wiring between PCUC and PCUM	
21000.2.54	Canal Controller Card Instance 2 Undervoltage	PCUM 2 has internal power supply (5V) undervoltage. - Likely broken PCB component if only this fault occurs. - Can also be a loose/faulty connection between the PCUC and PCUM	Contact a Sleipner dealer if the fault does not go away despite clearing several times. - Check if 24V power-supply is nominal - Check internal wiring between PCUC and PCUM	
21000.2.55	Canal Controller Card Instance 2 Overtemp	PCUM 2 circuit board critical temperature - PCUM 2 Circuit Board temperature sensor indicates high tempererature which shuts off the channel and thus opening the Channel 2 Contactor to avoid damage or incorrect functional behaviour.	Check that ships engine room temperature is within normal limits (<55 degrees C) - If problem persists, contact Sleipner dealer to discuss adding a PCU cabinet fan or similar.	
21000.2.100	Canal Controller Card Instance 2 No Communication	No communication with PCUM 2 Can be an incorrect adress setting - Can also be a loose/faulty connection between the PCUC and PCUM 2	Contact a Sleipner dealer Verify dipswitch addresses set to correct value - Check internal wiring & connectors between PCUC and PCUM	
21000.3.53	Canal Controller Card Instance 3 Overvoltage	PCUM 3 has internal power supply (5V) Overvoltage. - Likely broken PCB component if only this fault occurs. - Can also be a loose/faulty connection between the PCUC and PCUM	Contact a Sleipner dealer if the fault does not go away despite clearing several times. - Check if 24V power-supply is nominal - Check internal wiring between PCUC and PCUM	
21000.3.54	Canal Controller Card Instance 3 Undervoltage	PCUM 3 has internal power supply (5V) undervoltage. - Likely broken PCB component if only this fault occurs. - Can also be a loose/faulty connection between the PCUC and PCUM	Contact a Sleipner dealer if the fault does not go away despite clearing several times. - Check if 24V power-supply is nominal - Check internal wiring between PCUC and PCUM	
21000.3.55	Canal Controller Card Instance 3 Overtemp	PCUM 3 circuit board critical temperature - PCUM 3 Circuit Board temperature sensor indicates high tempererature which shuts off the channel and thus opening the Channel 3 Contactor to avoid damage or incorrect functional behaviour.	Check that ships engine room temperature is within normal limits (<55 degrees C) - If problem persists, contact Sleipner dealer to discuss adding a PCU cabinet fan or similar.	
21000.3.100	Canal Controller Card Instance 3 No Communication	No communication with PCUM 3. - Can be an incorrect adress setting - Can also be a loose/faulty connection between the PCUC and PCUM 3	Contact a Sleipner dealer Verify dipswitch addresses set to correct value - Check internal wiring & connectors between PCUC and PCUM	

Fault Code	Fault Name	Fault Description	Action
21000.4.53	Canal Controller Card Instance 4 Overvoltage	PCUM 4 has internal power supply (5V) Overvoltage. - Likely broken PCB component if only this fault occurs. - Can also be a loose/faulty connection between the PCUC and PCUM	Contact a Sleipner dealer if the fault does not go away despite clearing several times. - Check if 24V power-supply is nominal - Check internal wiring between PCUC and PCUM
21000.4.54	Canal Controller Card Instance 4 Undervoltage	PCUM 4 has internal power supply (5V) undervoltage Likely broken PCB component if only this fault occurs Can also be a loose/faulty connection between the PCUC and PCUM	Contact a Sleipner dealer if the fault does not go away despite clearing several times. - Check if 24V power-supply is nominal - Check internal wiring between PCUC and PCUM
21000.4.55	Canal Controller Card Instance 4 Overtemp	PCUM 4 circuit board critical temperature - PCUM 4 Circuit Board temperature sensor indicates high temperature which shuts off the channel and thus opening the Channel 4 Contactor to avoid damage or incorrect functional behaviour.	Check that ships engine room temperature is within normal limits (<55 degrees C) - If problem persists, contact Sleipner dealer to discuss adding a PCU cabinet fan or similar.
21000.4.100	Canal Controller Card Instance 4 No Communication	No communication with PCUM 4 Can be an incorrect adress setting - Can also be a loose/faulty connection between the PCUC and PCUM 4	Contact a Sleipner dealer Verify dipswitch addresses set to correct value - Check internal wiring & connectors between PCUC and PCUM
21001.1.13	Canal Controller Relay Instance 1 Open Circuit	Contactor on PCUM 1 open circuit Current through contactor coil is detected to be below threshold	- Check 24V supply to system - Check cable/connector between PCUM and the Contactor - Check internal wiring between PCUC and PCUM
21001.1.51	Canal Controller Relay Instance 1 Current High	Contactor Coil on PCUM 1 Overcurrent - Overcurrent (>2.0A) measured on contactor coil	Verify contactor not defective/shorted.
21001.1.57	Canal Controller Relay Instance 1 Overcurrent	Contactor Coil on PCUM 1 Short Circuit Overcurrent protection triggered	Verify contactor not defective/shorted.
21001.1.100	Canal Controller Relay Instance 1 No Communication	PCUM 1 lost communication with PCUC - The internal RS485 bus between the PCUM and the PCUC has timeout	Check internal wiring between PCUC and PCUM
21001.2.13	Canal Controller Relay Instance 2 Open Circuit	Contactor on PCUM 2 open circuit. - Current through contactor coil is detected to be below threshold	- Check 24V supply to system - Check cable/connector between PCUM and the Contactor - Check internal wiring between PCUC and PCUM
21001.2.51	Canal Controller Relay Instance 2 Current High	Contactor Coil on PCUM 2 Overcurrent - Overcurrent (>2.0A) measured on contactor coil	Verify contactor not defective/shorted.
21001.2.57	Canal Controller Relay Instance 2 Overcurrent	Contactor Coil on PCUM 2 Short Circuit Overcurrent protection triggered	Verify contactor not defective/shorted.
21001.2.100	Canal Controller Relay Instance 2 No Communication	PCUM 2 lost communication with PCUC - The internal RS485 bus between the PCUM and the PCUC has timeout	Check internal wiring between PCUC and PCUM
21001.3.13	Canal Controller Relay Instance 3 Open Circuit	Contactor on PCUM 3 open circuit Current through contactor coil is detected to be below threshold	- Check 24V supply to system - Check cable/connector between PCUM and the Contactor - Check internal wiring between PCUC and PCUM
21001.3.51	Canal Controller Relay Instance 3 Current High	Contactor Coil on PCUM 3 Overcurrent - Overcurrent (>2.0A) measured on contactor coil	Verify contactor not defective/shorted.
21001.3.57	Canal Controller Relay Instance 3 Overcurrent	Contactor Coil on PCUM 3 Short Circuit Overcurrent protection triggered	Verify contactor not defective/shorted.
21001.3.100	Canal Controller Relay Instance 3 No Communication	PCUM 3 lost communication with PCUC - The internal RS485 bus between the PCUM and the PCUC has timeout	Check internal wiring between PCUC and PCUM
21001.4.13	Canal Controller Relay Instance 4 Open Circuit	Contactor on PCUM 4 open circuit Current through contactor coil is detected to be below threshold	- Check 24V supply to system - Check cable/connector between PCUM and the Contactor - Check internal wiring between PCUC and PCUM
21001.4.51	Canal Controller Relay Instance 4 Current High	Contactor Coil on PCUM 1 Overcurrent - Overcurrent (>2.0A) measured on contactor coil	Verify contactor not defective/shorted.
21001.4.57	Canal Controller Relay Instance 4 Overcurrent	Contactor Coil on PCUM 4 Short Circuit Overcurrent protection triggered	Verify contactor not defective/shorted.
21001.4.100	Canal Controller Relay Instance 4 No Communication	PCUM 4 lost communication with PCUC - The internal RS485 bus between the PCUM and the PCUC has timeout	Check internal wiring between PCUC and PCUM
21003.1.54	Canal Controller Relay Voltage Instance 1 Undervoltage	PCUM 1 measures 24V supply has too low voltage to close contactorContactors will not close if voltage is <17V	- Check if power-supply to system is nominal - Check internal wiring between PCUC and PCUM
21003.2.54	Canal Controller Relay Voltage Instance 2 Undervoltage	PCUM 2 measures 24V supply has too low voltage to close contactorContactors will not close if voltage is <17V	- Check if power-supply to system is nominal - Check internal wiring between PCUC and PCUM
21003.3.54	Canal Controller Relay Voltage Instance 3 Undervoltage	PCUM 3 measures 24V supply has too low voltage to close contactorContactors will not close if voltage is <17V	- Check if power-supply to system is nominal - Check internal wiring between PCUC and PCUM
21003.4.54	Canal Controller Relay Voltage Instance 4 Undervoltage	PCUM 4 measures 24V supply has too low voltage to close contactorContactors will not close if voltage is <17V	- Check if power-supply to system is nominal - Check internal wiring between PCUC and PCUM
21100.0.51	PCU Key Switch Input Inverter Port - Current High	PTO Inverter Port KSI Overcurrent - PCUC measures > 2.2 A on the KSI wire from the PCUC to the PTO Inverter	- Verify harness between PCUC and PTO Port Generator/Inverter to ensure that no cable/wire has short circuit.
21100.0.52	PCU Key Switch Input Inverter Port - Current Critical	PTO Port KSI critical current.	- Verify harness between PCUC and PTO Port Generator/Inverter to ensure that no cable/wire has short circuit.
21100.0.53	PCU Key Switch Input Inverter Port - Overvoltage	PTO Inverter Port KSI Undervoltage	- Cycle 24V supply (power knob on the outside of the PCU cabinet) - Verify that the 24V supply is nominal - Check cable and connectors between PCU and PTO Inverter for damages or loose connections

Fault Code	Fault Name	Fault Description	Action	
21101.0.51	PCU Key Switch Input Inverter Starboard - Current High	PTO Inverter Starboard KSI Overcurrent - PCUC measures > 2.2 A on the KSI wire from the PCUC to the PTO Inverter	- Verify harness between PCUC and PTO Starboard Generator/Inverter to ensure that no cable/wire has short circuit.	
21101.0.52	PCU Key Switch Input Inverter Starboard - Current Critical	PTO Inverter STB critical current.	- Verify harness between PCUC and PTO Starboard Generator/Inverter to ensure that no cable/wire has short circuit.	
21101.0.53	PCU Key Switch Input Inverter Starboard - Overvoltage	PTO Inverter STB KSI Undervoltage	- Cycle 24V supply (power knob on the outside of the PCU cabinet) - Verify that the 24V supply is nominal - Check cable and connectors between PCU and PTO Inverter for damages or loose connections	
21102.0.51	PCU Seawater Pump - Current High	Current to relay coil for seawater pump higher than 2.2A for more than 100ms.	- Verify cables to ensure no short circuits are present - Exchange the relay	
21102.0.52	PCU Seawater Pump - Current Critical	Current to relay coil for seawater pump reached critical current limit.	- Verify cables to ensure no short circuits are present - Exchange the relay	
21103.0.53	PCU Battery System - Overvoltage	48V / Battery Overvoltage	Check battery voltage. Cycle 24V.	
21103.0.54	PCU Battery System - Undervoltage	48V / Battery Undervoltage	- Check battery voltage and cabling from batteries. - Check incoming battery Fuses (3 separate fuses) in the PCU cabinet	
21103.0.100	PCU Battery System - No Communication	No response from Modbus RTU/Phoenix Contact IO module.	- Verify cabling and connectors between the RTU/Phoenix Contact IO module and the PCUC - Verify that the RTU/Phonenix Contact Modbus IO module has correct 24V supply (LEDs shall be lit) - Make sure the Modbus IO module is parameterized according to spec.	
21103.0.204	PCU Battery System - SIGNAL LOST	No valid signal available from the 48V Batteries to the RTU/ Phoenix Contact Modbus IO module.	- Verify that 48V batteries have no faults - Check low voltage signal cables between the 48V batteries and the RTU/Phoenix Contact IO module.	
21104.0.10	PCU Coolant Level - Level Low	Coolant level low.	- Check the coolant level - Check harness & Connectors between Coolant Level sensor and the PCUC	
21105.0.150	PCU Inverter - ID Fault	Unknown ID on Inverter Possible causes: - Incorrect CAN configuration of inverter	Contact a Sleipner dealer if the fault does not go away.	
21105.200.52	PCU Inverter Starboard Current Critical	PTO STB Phase currents too high.	Contact Sleipner dealer	
21105.200.100	PCU Inverter Starboard No Communication	PTO Inverter Starboard No Communication Possible causes: - Cabling error - Inverter/PCU damaged - Inverter not properly configured	- Check cabling and connectors between PCU and PTO Inverter - Cycle 24V Supply (power knob on the outside of the PCU cabinet)	
21105.201.52	PCU Inverter Port Current Critical	PTO Port Phase currents too high.	Contact Sleipner dealer	
21105.201.100	PCU Inverter Port No Communication	PTO Inverter Port No Communication Possible causes: - Cabling error - Inverter/PCU damaged - Inverter not properly configured	- Check cabling and connectors between PCU and PTO Inverter - Cycle 24V Supply (power knob on the outside of the PCU cabinet)	
21106.200.24	PCU Inverter Status Register 1 Starboard Fault	PTO Starboard Inverter Fault in Status-Register 1 Possible causes: - Internal EEPROM error	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Cycle 24V (power knob on the outside of the PCU cabinet) to reset inverter software	
21106.201.24	PCU Inverter Status Register 1 Port Fault	PTO Port Inverter Fault in Status-Register 1 Possible causes: - Internal EEPROM error	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Cycle 24V (power knob on the outside of the PCU cabinet) to reset inverter software	
21107.200.24	PCU Inverter Status Register 2 Starboard Fault	PTO Starboard Inverter Fault in Status-Register 2 Possible causes: - Severe 48V Battery Undervoltage - PTO Generator rotational sensor (Cos/Sin Sensor) Fault - Severe Controller undertemperature	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Verify batteries provide sufficient voltage and 48V cable connection is intact Verify that the PTO Generator rotational sensor is connected/intact Verify that the ambient temperature in the motor-room is sufficiently high.	
21107.201.24	PCU Inverter Status Register 2 Port Fault	PTO Port Inverter Fault in Status-Register 2 Possible causes: - Severe 48V Battery Undervoltage - PTO Generator rotational sensor (Cos/Sin Sensor) Fault - Severe Controller undertemperature	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Verify batteries provide sufficient voltage and 48V cable connection is intact Verify that the PTO Generator rotational sensor is connected/intact Verify that the ambient temperature in the Engine room is sufficiently high.	
21108.200.24	PCU Inverter Status Register 3 Starboard Fault	PTO Starboard Inverter Fault in Status-Register 3 Possible causes: - Controller Severe Overtemperature	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Ensure that the coolant loop is intact and that the coolant flow is not interrupted - Ensure that the coolant pumps are operational	
21108.201.24	PCU Inverter Status Register 3 Port Fault	PTO Port Inverter Fault in Status-Register 3 Possible causes: - Controller Severe Overtemperature	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Ensure that the coolant loop is intact and that the coolant flow is not interrupted - Ensure that the coolant pumps are operational	
21109.200.24	PCU Inverter Status Register 4 Starboard Fault	PTO Starboard Inverter Fault in Status-Register 4 Possible causes: - Controller Overcurrent - Current Sensor Fault - Parameter Change Fault - Motor Open fault	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Cycle 24V power (power knob on the outside of the PCU cabinet). - Cabling from the PTO inverter to the PTO generator might be incorrect. - Verify that all bolts on the power cables between the PTO generator and the PTO Inverter are torqued firm. - Inverter hardware might be broken, contact Sleipner dealer.	

Fault Code	Fault Name	Fault Description	Action
21109.201.24	PCU Inverter Status Register 4 Port Fault	PTO Port Inverter Fault in Status-Register 4 Possible causes: - Controller Overcurrent - Current Sensor Fault - Parameter Change Fault - Motor Open fault	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Cycle 24V power (power knob on the outside of the PCU cabinet). - Cabling from the PTO inverter to the PTO generator might be incorrect. - Verify that all bolts on the power cables between the PTO generator and the PTO Inverter are torqued firm. - Inverter hardware might be broken, contact Sleipner dealer.
21110.200.24	PCU Inverter Status Register 5 Starboard Fault	PTO Starboard Inverter Fault in Status-Register 5 Possible causes: - Motortemp Sensor Fault - OS/Software fault - Stall detected	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Verify PTO generator temperature sensor cable correctly plugged and that the cable is not damaged - Cycle 24V supply (power knob on the outside of the PCU cabinet).
21110.201.24	PCU Inverter Status Register 5 Port Fault	PTO Port Inverter Fault in Status-Register 5 Possible causes: - Motortemp Sensor Fault - OS/Software fault - Stall detected	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Verify PTO generator temperature sensor cable correctly plugged and that the cable is not damaged - Cycle 24V supply (power knob on the outside of the PCU cabinet).
21111.200.24	PCU Inverter Status Register 6 Starboard Fault	PTO Starboard Inverter Fault in Status-Register 6 Possible causes: - Bad calibrations - Motortype fault - Supervisor fault - Motor characterization fault	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Cycle 24V supply (power knob on the outside of the PCU cabinet). - Verify that the PTO generator is an original part supplied by Sleipner.
21111.201.24	PCU Inverter Status Register 6 Port Fault	PTO Port Inverter Fault in Status-Register 6 Possible causes: - Bad calibrations - Motortype fault - Supervisor fault - Motor characterization fault	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Cycle 24V supply (power knob on the outside of the PCU cabinet) Verify that the PTO generator is an original part supplied by Sleipner.
21112.200.24	PCU Inverter Status Register 7 Starboard Fault	PTO Starboard Inverter Fault in Status-Register 7 Possible causes: - Incorrect Model Number	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Cycle 24V supply (power knob on the outside of the PCU cabinet). - Check that the PTO inverter is an original part supplied by Sleipner.
21112.201.24	PCU Inverter Status Register 7 Port Fault	PTO Port Inverter Fault in Status-Register 7 Possible causes: - Incorrect Model Number	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Cycle 24V supply (power knob on the outside of the PCU cabinet). - Check that the PTO inverter is an original part supplied by Sleipner.
21113.200.24	PCU Inverter Status Register 8 Starboard Fault	PTO Starboard Inverter Fault in Status-Register 8 Possible causes: - Parameter mismatch - Severe KSI undervoltage	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Cycle 24V supply (power knob on the outside of the PCU cabinet) - Verify that the 24V supply is nominal - Check cable and connectors between PCU and PTO Inverter for damages or loose connections
21113.201.24	PCU Inverter Status Register 8 Port Fault	PTO Port Inverter Fault in Status-Register 8 Possible causes: - Parameter mismatch - Severe KSI undervoltage	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Cycle 24V supply (power knob on the outside of the PCU cabinet) - Verify that the 24V supply is nominal - Check cable and connectors between PCU and PTO Inverter for damages or loose connections
21114.200.24	PCU Inverter Status Register 9 Starboard Fault	PTO Starboard Inverter Fault in Status-Register 9 Possible causes: - Supervisor incompatible - PMAC Comissioning Needed - Driver supply issue	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Cycle 24V supply (power knob on the outside of the PCU cabinet) - Check that the PTO Generator is an original part supplied by Sleipner.
21114.201.24	PCU Inverter Status Register 9 Port Fault	PTO Port Inverter Fault in Status-Register 9 Possible causes: - Supervisor incompatible - PMAC Comissioning Needed - Driver supply issue	Contact a Sleipner dealer if the fault does not go away despite clearing several times. Possible fixes: - Cycle 24V supply (power knob on the outside of the PCU cabinet) - Check that the PTO Generator is an original part supplied by Sleipner.
21115.200.24	PCU Inverter Motor Temperature Sensor Starboard Fault	PTO Inverter STB Motortemp Sensor Fault - Likely not connected properly or damaged cable.	Check cabling/connectors for motortemp sensor between PTO Starboard Inverter and generator.
21115.201.24	PCU Inverter Motor Temperature Sensor Port Fault	PTO Inverter Port Motortemp Sensor Fault - Likely not connected properly or damaged cable.	Check cabling/connectors for motortemp sensor between PTO Port Inverter and generator.
21116.200.24	PCU Inverter Position Sensor Starboard Fault	PTO Inverter STB Cos/Sin Sensor Fault - Likely not connected properly or damaged cable.	Check cabling/connectors for the generator rotational sensor (cos/sin sensor) between the PTO Starboard inverter and generator.
21116.201.24	PCU Inverter Position Sensor Port Fault	PTO Inverter Port Cos/Sin Sensor Fault - Likely not connected properly/damaged cable.	Check cabling/connectors for the generator rotational sensor (cos/sin sensor) between the PTO Port inverter and generator.
21117.1.24	PCU Channel Card Upgrade Fault Instance 1 Fault	PCUM 1 stuck in bootloader/upgrade failed.	Cycle power and give the system some time to upgrade the firmware. If the issue persists, consult dealer.
21117.2.24	PCU Channel Card Upgrade Fault Instance 2 Fault	PCUM 2 stuck in bootloader/upgrade failed.	Cycle power and give the system some time to upgrade the firmware. If the issue persists, consult dealer.
21117.3.24	PCU Channel Card Upgrade Fault Instance 3 Fault	PCUM 3 stuck in bootloader/upgrade failed.	Cycle power and give the system some time to upgrade the firmware. If the issue persists, consult dealer.
21117.4.24	PCU Channel Card Upgrade Fault Instance 4 Fault	PCUM 4 stuck in bootloader/upgrade failed.	Cycle power and give the system some time to upgrade the firmware. If the issue persists, consult dealer.
40008.0.24	SCU Sensor board fault 6 - Fault	PCUC EEPROM failure. Read or write. - Likely damage to PCB EEPROM IC	Contact Sleipner dealer.

TMU-1 Fault Codes

MC_0470

Fault Code	Fault Name	Fault Description	Action
10103.0.10	Gearleg Oil - Level Low	Gearleg oil level is low	-Check level indicator on the external oil tank. If low oil level in tank, refill oil and check gearleg for leakageIf oil level is ok, check that cable between TMU-1 and oil tank sensor is connected and not damaged.
10104.0.212	Motor Speed - Overspeed	Motor speed higher than 5.000 RPM	-Verify that Pulse Per Revolution configuration on TMU-1 matches RPM sensor specificationCheck that cable between TMU-1 and RPM sensor is connected and not damaged.

VDRI-1 Fault Codes

MC_0449

Fault Code Fault Name		Fault Description	Action
109.0.0	Configuration Error	-No Speed Source configured. At least one instance must be configured for VDRI to log dataInstance configured to receive data from PDC-301, but receive data from TMU-1 or vice versaAn instance receives data when no Speed Source is configured, or vice versa.	Check configuration and installed devices on S-Link bus.

SRC-3 Fault Codes

Fault Code	Fault Name	Fault Description	Action
100.0.0	System Error	System Error	Contact Sleipner Dealer
153.0.151	Supply Voltage - Self-Test Fault	Failed to determine voltage level of the system / Out of range.	Verify that the correct battery was chosen for this system and that it is properly charged.
10600.0.101	Retract Controller - Bus Off	Actuator CAN experienced Bus Off/Bus error.	Verify CAN cables to the actuators are correctly connected.
10600.0.210	Retract Controller - Service Mode	In Service Mode.	Exit service mode by using button controls.
10602.0.22	Retract Motion OUT Fault - Out of position	Lift or Lock Actuators went past their expected end-position when hatch deploying.	Inspect actuators and lifting arms for visual damage. Check fault specific data for more info. Contact Sleipner Dealer if problem is not resolved.
10602.0.51	Retract Motion OUT Fault - Current High	Blocked while deploying hatch.	Find and remove cause of mechanical blockage.
10603.0.22	Retract Motion IN Fault - Out of position	Lift or Lock Actuators went past their expected end-position when hatch retracting.	Inspect actuators and lifting arms for visual damage. Verify that the hatch fits the hull according to specification. Check fault specific data for more info. Contact Sleipner Dealer if problem is not resolved.
10603.0.51	Retract Motion IN Fault - Current High	Blocked while retracting hatch.	Find and remove cause of mechanical blockage.
10605.1.24	Lift Actuator Instance 1 Fault	Lift Actuator 1 Reported a Fatal Error	Contact Sleipner Dealer.
10605.1.53	Lift Actuator Instance 1 Overvoltage	Lift Actuator 1 Measured Overvoltage	Verify that the correct battery was chosen for this system.
10605.1.54	Lift Actuator Instance 1 Undervoltage	Lift Actuator 1 Measured Undervoltage	Verify that battery is charged.
10605.1.55	Lift Actuator Instance 1 Overtemp	Lift Actuator 1 Temperature Exceeding >85C	Find and eliminate cause of high temperature.
10605.1.100	Lift Actuator Instance 1 No Communication	Lift Actuator 1 Not Communicating	Verify that CAN and supply cables are correctly connected, and that no fuses have gone out.
10605.1.209	Lift Actuator Instance 1 MOTION FAULT	Lift Actuator 1 experienced linear motion while it was supposed to be in a fixed position. Load might have caused backdrive.	Look for mechanical obstruction/causes for the backdrive and remove them.
10605.2.24	Lift Actuator Instance 2 Fault	Lift Actuator 2 Reported a Fatal Error	Contact Sleipner Dealer.
10605.2.53	Lift Actuator Instance 2 Overvoltage	Lift Actuator 2 Measured Overvoltage	Verify that the correct battery was chosen for this system.
10605.2.54	Lift Actuator Instance 2 Undervoltage	Lift Actuator 2 Measured Undervoltage	Verify that battery is charged.
10605.2.55	Lift Actuator Instance 2 Overtemp	Lift Actuator 2 Temperature Exceeding >85C	Find and eliminate cause of high temperature.
10605.2.100	Lift Actuator Instance 2 No Communication	Lift Actuator 2 Not Communicating	Verify that CAN and supply cables are correctly connected, and that no fuses have gone out.
10605.2.209	Lift Actuator Instance 2 MOTION FAULT	Lift Actuator 2 experienced linear motion while it was supposed to be in a fixed position. Load might have caused backdrive.	Look for mechanical obstruction/causes for the backdrive and remove them.
10606.1.24	Lock Actuator Instance 1 Fault	Lock Actuator 1 Reported a Fatal Error, could be broken.	Contact Sleipner Dealer.
10606.1.53	Lock Actuator Instance 1 Overvoltage	Lock Actuator 1 Measured Overvoltage	Verify that the correct battery was chosen for this system.
10606.1.54	Lock Actuator Instance 1 Undervoltage	Lock Actuator 1 Measured Undervoltage	Verify that battery is charged.
10606.1.55	Lock Actuator Instance 1 Overtemp	Lock Actuator 1 Temperature Exceeding >85C	Find and eliminate cause of high temperature.
10606.1.100	Lock Actuator Instance 1 No Communication	Lock Actuator 1 Not Communicating	Verify that CAN and supply cables are correctly connected, and that no fuses have gone out.
10606.1.209	Lock Actuator Instance 1 MOTION FAULT	Lock Actuator 1 experienced linear motion while it was supposed to be in a fixed position. Load might have caused backdrive.	Look for mechanical obstruction/causes for the backdrive and remove them.
10607.0.209	Actuator Alignment Fault - MOTION FAULT	There was a position discrepancy between the lift actuators, but alignment failed.	Look for mechanical obstruction/causes for alignment failure.
40008.0.206	Sensor Fault 6 - WRITE FAIL	EEPROM failed to write.	Contact Sleipner Dealer.

Alarm Descriptions

Below are Generic Fault Codes listed. For legacy reasons this system is used on old products and products with old firmware versions.

"Err. No."	Errors shown in display	"Auto Reset"	"Ext. buzzer activation at Alert Level"	Description	Action
1	Motor Overcurrent		2 ⁽²⁾ , 3	Motor current too high.	"Thruster must be serviced by authorized personnel, reset or power OFF/ON PPC ⁽¹⁾ ."
2	Motor Overtemp	Yes	2 ⁽²⁾ , 3	"Motortemp has been over 120°C/248°F."	Motor cool down below 110°C /230°F.
3	Controller Overtemp		2 ⁽²⁾ , 3	"PPC ⁽¹⁾ temp has been over 80°C/176°F."	PPC ⁽¹⁾ cool down below 45°C/113°F.
4	Controller Overtemp		2 ⁽²⁾ , 3	"SR150000 temp has been over 80°C/176°F."	SR150000 cool down below 45°C /113°F.
5	Low Voltage		2 ⁽²⁾ , 3	Low motor voltage alarm when motor is running. 12V thruster below 8.00V 24V thruster below 12.00V	Recharge battery, reset or power OFF/ON device.
6	Thermoswitch	Yes	2 ⁽²⁾ , 3	Thermo switch input is activated and there is an open circuit.	The thruster needs to cool down before operating again.
7	IPC Error		2 ⁽²⁾ , 3	Motor relay fault	"Turn off thruster battery main switch. Thruster must be serviced by authorized personnel."
8	Critical Error		2(2), 3	PPC ⁽¹⁾ output fail	PPC ⁽¹⁾ must be sent for service.
9	Low Motor Current		2 ⁽²⁾ , 3	Thruster uses no power	Check thruster connections or motor dead!
10	Motor Contactor		2 ⁽²⁾ , 3	No current on motor relay coil.	Check motor relay connections, short circuit or relay dead!
11	System Error		2 ⁽²⁾ , 3	Fatal error	Device must be serviced by authorized personnel
12	No Communication		2 ⁽²⁾ , 3	No communication with device	Check S-Link cables and power connections.
13	Motor Temp Sensor		2 ⁽²⁾ , 3	Motor temperature sensor fail	Check for an open circuit on the temp sensor on the motor
14	Supply Voltage Fault		2 ⁽²⁾ , 3	No power	Check power connections
15	Fuse Blown		2 ⁽²⁾ , 3	Fuse blown	Replace fuse or check if main cable from battery and main cable to thruster has been switched
16	Manual Override	Yes	2 ⁽²⁾ , 3	Main switch manually overridden	Pull main switch
17	Motion OUT Fault		2 ⁽²⁾ , 3	Retract obstructed while deploying	Turn off all panels. Go for lower speed/ deeper water and retry.
18	Motion IN Fault		2 ⁽²⁾ , 3	Retract obstructed while retracting	Turn panel on and manually override main switch. Remove obstruction and try again.

^{1.} PPC520, PPC820, PPC800, PPC840

2. Buzzer is only activated when any device is sending thrust on the S-Link bus.

"Err. No."	Errors shown in display	"Auto Reset"	"Ext. buzzer activation at Alert Level"	Description	Action
19	Actuator Fault		2 ⁽²⁾ , 3	Actuator not getting any power	"Check actuator connection or power to actuator. Reset alarm in alarm menu on PJC 211/212/221/222 or recycle power."
20	Pos.Sensor Fault		2 ⁽²⁾ , 3	Retract position sensor fail	Check position sensor cables and for sensor damage.
21	In Service Mode	Yes	2 ⁽²⁾ , 3	"Retract controller in service mode. Switch no. 4 is ON."	Check dip switch setting on retract control box.
22	High Oil Temp	Yes	1, 2 ⁽²⁾ , 3	"Hydraulic oil temperature is higher than 75°C /167°F."	"Stop running and wait for temperature to drop. Check if cooling pump is running."
23	Low Oil Level		1, 2 ⁽²⁾ , 3	Hydraulic oil level is to low	Fill more hydraulic oil to the hydraulic tank.
24	Warning Return Filter	Yes	2 ⁽²⁾ , 3		Return filter element required replacing.
25	Warning Pressure Filter	Yes	2 ⁽²⁾ , 3		Pressure filter element required replacing.
26	Warning High Speed	Yes	1, 2 ⁽²⁾ , 3	"WARNING! High Speed. Stabilizer not active!"	
27	Stabilizer Fault	Yes	1, 2 ⁽²⁾ , 3	Any Stabilizer alarm.	See stabilizer panel for more info.
28	AC Motor Overtemp	Yes	1, 2 ⁽²⁾ , 3	"Hydraulic AC motor power pack overtemp. Higher than 120°C/248°F."	Stop running and wait for temperature to drop.
29	AC Motor Sensor Fail		2 ⁽²⁾ , 3	"Hydraulic AC motor power pack temp sensor open circuit"	Check sensor cables.
30	Temperature Warning	Yes	2 ⁽²⁾ , 3 ⁽²⁾	High temperature warning.	Warns that the motor temperature is getting high.
31	Motor Overtemp	Yes	1, 2 ⁽²⁾ , 3	High temperature Alarm.	See SAC manual for more details.
32	VFD Warning	Yes	2 ⁽²⁾ , 3	There is an warning from VFD.	Check VFD for more details.
33	VFD Not Ready	Yes	2 ⁽²⁾ , 3	The VFD is not ready.	Check VFD for more details.
34	VFD Fault		1, 2 ⁽²⁾ , 3	VFD has an Alarm.	Check VFD for more details.
35	Warning Low Voltage	Yes	2 ⁽²⁾ , 3 ⁽²⁾	Low motor voltage warning when motor is running. 12V thruster below 9.30V 24V thruster below 17.50V	
36	Not Calibrated	Yes	2 ⁽²⁾ , 3	Shaft Not Calibrated	See manual for how to calibrate.
37	VFD Com. Fault		2 ⁽²⁾ , 3	No Modbus communication with VFD	Check VFD Modbus cables and power.
38	Cooling Fan Fault		2 ⁽²⁾ , 3	Cooling fan stopped running, or running too slow	Device must be sent for service
39	Interlock		2 ⁽²⁾ , 3	S-Link communication between PPC and retract controller are missing	-Check PPC or retract controller has powerCheck S-Link connections to PPC and retract controllerCheck if not PPC or SR150000/SR61242 is wrongly setup as SRP or SRVP/SRLP.

^{1.} PPC520, PPC820, PPC800, PPC840

 $^{2.\ \}mbox{Buzzer}$ is only activated when any device is sending thrust on the S-Link bus.

Quick Reference S-Link Alarm Codes

Before seeking assistance at the help desk from your Sleipner dealer/ distributor, please perform these tests.

(NB: All checkpoints and solutions must be carried out after consulting the relevant information elsewhere in this manual to understand how the system is intended to work. If you are unable to understand what to check, you must consult a professional.)

Alarm code	Errors shown on display	Auto Rest	Ext. Buzzer activation at Alert Level"	Description	Action	
1	Motor Over-current		2 ⁽²⁾ , 3	Motor current too high.	"Thruster must be serviced by authorized personnel, reset or power OFF/ON PPC(1)."	
2	Motor Over-temp	Yes	2(2), 3	"Motor-temp has been over 120°C/248°F."	Motor cool down below 110°C /230°F.	
3	Controller Over-temp		2(2), 3	"PPC ⁽¹⁾ temp has been over 80°C/176°F."	PPC ⁽¹⁾ cool down below 45°C/113°F.	
4	Controller Over-temp		2(2), 3	"SR150000 temp has been over 80°C/176°F."	SR150000 cool down below 45°C /113°F.	
5	Low Voltage		2(2), 3	Low motor voltage alarm when motor is running. 12V thruster below 8.00V 24V thruster below 12.00V	Recharge battery, reset or power OFF/ON device.	
6	Thermoswitch		2 ⁽²⁾ , 3	Thermo switch input is activated and there is an open circuit.	The thruster needs to cool down before operating again.	
7	IPC Error		2 ⁽²⁾ , 3	Motor relay fault	"Turn off thruster battery main switch. Thruster must be serviced by authorized personnel."	
8	Critical Error		2(2), 3	PPC ⁽¹⁾ output fail	PPC ⁽¹⁾ must be sent for service.	
9	Low Motor Current		2(2), 3	Thruster uses no power	Check thruster connections or motor dead!	
10	Motor Contact		2(2), 3	No current on motor relay coil.	Check motor relay connections, short circuit or relay dead!	
11	System Error		2(2), 3	Fatal error	Device must be serviced by authorized personnel	
12	No Communication		2(2), 3	No communication with device	Check S-Link cables and power connections.	
13	Motor Temp Sensor		2(2), 3	Motor temperature sensor fail	Check for an open circuit on the temp sensor on the motor	
14	Supply Voltage Fault		2(2), 3	No power	Check power connections	
15	Fuse Blown		2 ⁽²⁾ , 3	Fuse blown	Replace fuse or check if main cable from battery and main cable to thruster has been switched	
16	Manual Override	Yes	2 ⁽²⁾ , 3	Main switch manually overridden	Pull main switch	
17	Motion OUT Fault		2(2), 3	Retract obstructed while deploying	Turn off all panels. Go for lower speed/deeper water and retry.	
18	Motion IN Fault		2 ⁽²⁾ , 3	Retract obstructed while retracting	Turn panel on and manually override main switch. Remove obstruction and try again.	
19	Actuator Fault		2 ⁽²⁾ , 3	Actuator not getting any power	"Check actuator connection or power to actuator. Reset alarm in alarm menu on PJC 211/212/221/222 or recycle power."	
20	Pos.Sensor Fault		2(2), 3	Retract position sensor fail	Check position sensor cables and for sensor damage.	
21	In Service Mode	Yes	2 ⁽²⁾ , 3	"Retract controller in service mode. Switch no. 4 is ON."	Check dip-switch setting on retract control box.	
22	High Oil Temp	Yes	1, 2 ⁽²⁾ , 3	"Hydraulic oil temperature is higher than 75°C /167°F."	"Stop running and wait for temperature to drop. Check if cooling pump is running."	

Notes:

- 1. PPC520, PPC820, PPC840 & PPC800
- 2. Buzzer is only activated when any thruster device is operated. (Sending thrust on the S-link bus.)

Quick Reference S-Link Alarm Codes

Before seeking assistance at the help desk from your Sleipner dealer/ distributor, please perform these tests.

(NB: All checkpoints and solutions must be carried out after consulting the relevant information elsewhere in this manual to understand how the system is intended to work. If you are unable to understand what to check, you must consult a professional.)

Alarm code	Errors shown on display	Auto Rest	Ext. Buzzer activation at Alert Level"	Description	Action	
23	Low Oil Level		1, 2(2), 3	Hydraulic oil level is to low	Fill more hydraulic oil to the hydraulic tank.	
24	Warning Return Filter	Yes	2(2), 3		Return filter element required replacing.	
25	Warning Pressure Filter	Yes	2(2), 3		Pressure filter element required replacing.	
26	Warning High Speed	Yes	1, 2 ⁽²⁾ , 3	"WARNING! High Speed. Stabilizer not active!"		
27	Stabilizer Fault	Yes	1, 2 ⁽²⁾ , 3	Any Stabilizer alarm.	See stabilizer panel for more info.	
28	AC Motor Over-temp	Yes	1, 2 ⁽²⁾ , 3	"Hydraulic AC motor power pack over-temp. Higher than 120°C/248°F."	Stop running and wait for temperature to drop.	
29	AC Motor Sensor Fail		2 ⁽²⁾ , 3	"Hydraulic AC motor power pack temp sensor open circuit"	Check sensor cables.	
30	Temperature Warning	Yes	2(2), 3(2)	High temperature warning.	Warns that the motor temperature is getting high.	
31	Motor Over-temp	Yes	1, 2(2), 3	High temperature Alarm.	See SAC manual for more details.	
32	VFD Warning	Yes	2(2), 3	There is an warning from VFD.	Check VFD for more details.	
33	VFD Not Ready	Yes	2(2), 3	The VFD is not ready.	Check VFD for more details.	
34	VFD Fault		1, 2(2), 3	VFD has an Alarm.	Check VFD for more details.	
35	Warning Low Voltage	Yes	2 ⁽²⁾ , 3 ⁽²⁾	Low motor voltage warning when motor is running. 12V thruster below 9.30V 24V thruster below 17.50V		
36	Not Calibrated	Yes	2(2), 3	Shaft Not Calibrated	See manual for how to calibrate.	
37	VFD Com. Fault		2(2), 3	No Modbus communication with VFD	Check VFD Modbus cables and power.	
38	Cooling Fan Fault		2(2), 3	Cooling fan stopped running, or running too slow	Device must be sent for service	
39	Interlock		2 ⁽²⁾ , 3	S-link communication between PPC and retract controller are missing	-Check PPC or retract controller has powerCheck S-Link connections to PPC and retract controllerCheck if not PPC or SR150000/SR61242 is wrongly setup as SRP or SRVP/SRLP.	

Notes:

- 1. PPC520, PPC820, PPC840 & PPC800
- 2. Buzzer is only activated when any thruster device is operated. (Sending thrust on the S-link bus.)

MK Troubleshooting Guide

Fault Number	Fault Description Helm Station		Version - MK1 / MK 2 (Possible Cause)	Version - MK3 (Possible Cause)	Check / Action / Comments	
1	Steering stopped working, no alarms		No power	No power	-Check Circuit Breaker -Check voltage on B+/B- terminals	
			Motor broken	Motor broken	Replace Motor	
			Worn Brushes		-ESPE 600/700 motor without fan, replace complete motor -Other motors, replace brushes	
	3		Motor Starter Relay broken	N/A (Will cause alarm)	Change Relay	
			Loom ECU to relay broken	N/A (Will cause alarm)		
			Corrosion on motor relay spade terminals.	N/A (Will cause alarm)		
		Both helms:	Pressure switch adjustment	Pressure switch adjustment	Check end stop LED (orange) at PCB, adjust switch	
			Broken pressure switch	Broken pressure switch	Replace switch	
			Pressure switch adjustment	Pressure switch adjustment	Check end stop LED (orange) at PCB, adjust switch	
		Lower	Broken pressure switch	Broken pressure switch	Replace switch	
2	No end stop	helm only:	Lock valve sticking in open position	Lock valve sticking in open position	-Remove valve cartridge from main valve unitConnect 24V to coil and check spool movement.	
			No oil in helm/system not pressurized	No oil in helm/system not pressurized	Refill, and run air purging procedure.	
		Upper	End stop brake broken	End stop brake broken	Connect 24V to brake connector, check brake, check loom	
		helm only:	Brake signal failure	Brake signal failure		
3	Bad performance, weak	Bad performance, weak		Worn Cylinder Piston Seals	Worn Cylinder Piston Seals	Replace Seals, or install new Cylinder.
3	steering		Worn hydraulic Pump	Worn hydraulic Pump	Replace Pump	
4	Creening Dudden		Leaking load Holding Valves	Leaking load Holding Valves	Valves to be adjusted	
4	Creeping Rudder		Leaking Cylinder Piston Seal	Leaking Cylinder Piston Seal	Replace Seals, or install new Cylinder.	
5	Grey / White oil		Water in oil	Water in oil	-Replace complete system -Replace Cooler kit. NB! To be discussed.	
6	Unstable steering, temporary failures no alarms. Grey/White oil		Water in oil	Water in oil	-Replace complete system -Replace Cooler kit. NB! To be discussed.	
			Sticking lock/bypass valve	Sticking lock/bypass valve	Water in oil, see pt. 5 - 6	
7	No steering, no alarms, no fall back to backup		Motor stopped, see fault no.1	Motor stopped, see fault no.1	Change complete Motor.	
	from lower helm.		Sticking rely	N/A (Will cause alarm)	Change relay NB! Switch off circuit breaker for backup	
8	No steering from Helm. Works fine from Pilot		Missing signal from helm	Missing signal from helm	Check green/red signal input led on PCB.	
9	Alarm during Prt only		Valve coil broken	Valve coil broken	Check Coil resistance, to be 39,3Ω @20°C	
			Connector failure or broken loom	Connector failure or broken loom		
10	Alarm during Stb only		Valve coil broken	Valve coil broken	Check Coil resistance, to be 39,3Ω @20°C	
	,		Connector failure or loom failure	Connector failure or loom failure		
			Servo valve coil broken	Servo valve coil broken	Check Coil resistance, to be 21,7Ω @20°C	
11	Alarm. both Prt and Stb			Lock Valve Coil Broken	Check Coil resistance, to be 39,3Ω @20°C	
	, , , , , , , , , , , , , , , , , , , ,		Connector failure or loom failure	Connector failure or loom failure		
			Relay failure	Relay failure		
Fault Type	Fault Description		Version - MK1 / MK 2 (Possible Cause)	Version - MK3 (Possible Cause)	Check / Action / Comments	
1			Coil failure, servo valve	Coil failure, servo valve	Check Coil resistance, to be 21,7Ω @20°C	
	Motor stops immediately		Coil failure, directional valves	Coil failure, directional valves	Check Coil resistance, to be 39,3Ω @20°C	
			Loom failure	Coil failure, lock valve	Check Coil resistance, to be 39,3Ω @20°C	
				Motor starter relay failure		
				Loom failure		
				Low voltage	Alarms < 18V	
	System continue working for 2 minutes. Motor stops if alarm situat is still present after 2 minutes		Oil temperature	Oil temperature	-Check Oil temperature and cooling. -Check Sensor resistance, <130 Ω	
2			Motor temperature	Motor temperature	Check Switch (NC) Check Motor temp sticker.	

8700 Troubleshooting Guide

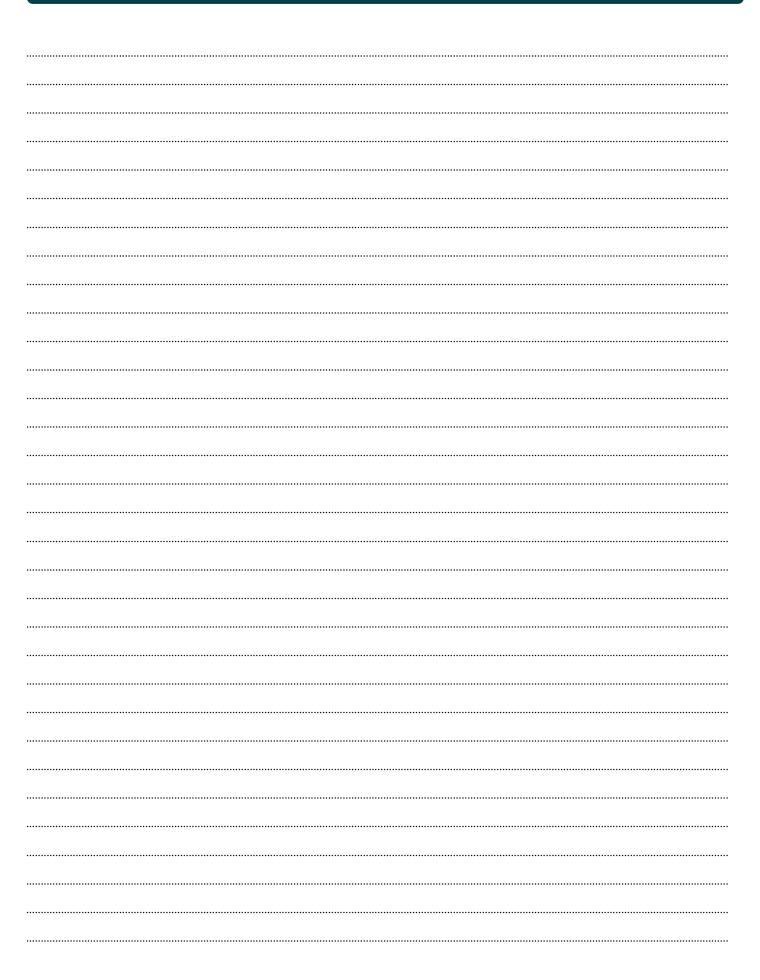
LED	PANEL ALARM INDICATION	FAULT	THRUSTER RESPONSE	SOLUTION
1 🗰	1 flash YELLOW & GREEN - pause	Thruster, overtemp	Retracts	Turn off panel, wait for 20 min
2 🗰	2 flash YELLOW & GREEN - pause	Thruster, low power	Retracts	Turn off panel, charge batteries
з 🗰	3 flash YELLOW & GREEN - pause	Deploy operation obstructed	Retracts	Turn off panel, Go for lower speed/ deeper water - Retry.
4	4 flash YELLOW & GREEN - pause	SR150000 position sensor fail	Retracts	Position sensor short or open circuit Check wiring and connection
5 🗰	5 flash YELLOW & GREEN - pause	SR150000 solenoid output short circuit, port or star- board	Retracts	Check solenoid wiring and connection, and check if solenoid has blown
6 🥨	6 flash YELLOW & GREEN - pause	SR150000 motor temp sensor fail	Retracts	Check motor temp sensor, wiring and connection
1 🗪	1 flash YELLOW & RED - pause	Power failure, Actuator	System shuts down	Turn off panel, check actuator connections - Retry
2 🥨	2 flash YELLOW & RED - pause	Thruster IPC error	Retracts	Turn off panel - Thruster must be serviced by authorised personal
3 💢	3 flash YELLOW & RED - pause	Retract operation obstructed	Aborts retract, deploys and retries to retract 3 times. If operation still in obstructed, retract stops on obstruction	Press both ON-buttons to deploy thruster. Turn main switch off. Remove obstruction.
1 000	1 flash YELLOW, GREEN & RED - pause	Automatic main switch pow- er failure	None	Check power to automatic main switch.
2 000	2 flash YELLOW, GREEN & RED - pause	Automatic main switch fuse blown	None	Replace fuse on automatic main switch. If a new installation, check if input and output is connected correctly.
3 ಯ	3 flash YELLOW, GREEN & RED - pause	Automatic main switch man- ual override	None	Pull up automatic main switch
4 000	4 flash YELLOW, GREEN & RED - pause	Panel has no contact with thruster	None	Turn off panel. Check main switch, fuse, cables and connections - Retry

(NB: THE MAIN SWITCH MUST BE TURNED OFF IMMEDIATELY WHEN AN IPC-ERROR OCCURS, TO PREVENT OVERHEATING OF THE THRUSTER MAIN RELAYS.)

THRUSTER WILL NOT RETRACT WHILE REVERSING AT "HIGH" SPEED. THIS WILL TRIGGER THE "Retract operation obstructed" ALARM.

IF ALARM IS TRIGGERED, REDUCE SPEED AND PRESS BOTH "ON" BUTTONS BEFORE RETRYING "OFF" BUTTON

Notes MC_0037



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