

Test codes, Poseidon SE7EN

Test	Description
1	System Data Log Integrity Test.
2	Display ROM / RAM / Fuses.
3	Display EEPROM.
4	HUD ROM / RAM / Fuses.
5	HUD EEPROM.
6	Backpack ROM / RAM / Fuses.
7	Backpack EEPROM.
8	Battery ROM / RAM / Fuses.
9	Battery EEPROM & RTC clock correctness.
14	Battery Data logger.
15	Firmware Version Compatibility.
16	Battery State-of-Charge.
17	Primary Display Backlight.
18	HUD RED LED.
19	HUD GREEN LED.
20	Buddy-Light LED.
22	HUD Vibrator.
23	Mouthpiece Closed-Circuit Position.
24	Metabolic O2 Solenoid #1.
25	Metabolic O2 Solenoid #2.
26	Oxygen Calibration Solenoid.
27	Diluent Calibration Solenoid.
29	Audio Alarm Speaker.
30	Oxygen Cylinder Pressure Sensor Validation.
31	Diluent Cylinder Pressure Sensor Validation.
34	Primary Oxygen Sensor Validation.
35	Secondary Oxygen Sensor Validation
38	Depth/Temperature Sensor Validation
39	Mouthpiece Closed-Circuit Position
40	Decompression Status Verification.
41	Confirm diveable canister installed.
43	Mouthpiece Open-Circuit Position.
44	Sufficient Oxygen Supply Pressure.
45	Sufficient Diluent Supply Pressure.
48	Sufficient Battery Capacity.
49	Positive Pressure Loop Test..
50	Mouthpiece Closed-Circuit Position.
51	Helium Fraction Confirmation test.
52	Oxygen Fraction Confirmation test.
53	Oxygen Sensor Calibration
54	Open-Circuit Regulator Check.
55	Service Interval..

Error codes, Poseidon SE7EN

Error	Description
0	The test timed out
2	The datalogger IC on the Display is bad
3	The ROM on the PCB under test failed its CRC check
4	The RAM on the PCB under test failed its CRC check
5	The fuses on the PCB under test are not set correctly
6	The EEPROM on the CPU under test is corrupted
7	The SW version of the battery does not match the rest of the system
8	A CPU other than battery has a SW version that does not match the rest of the system
9	The quiescent current draw of the system is too low
10	The quiescent current draw of the system is too high
11	The DUT's current draw was too low
12	The DUT's current draw was too high
13	The datalogger IC on the battery is bad
14	The HPO2 power supply can't be turned off
15	The HPO2 power supply can't be turned on
16	The HPO2 sensor is defective
17	The HP Diluent power supply can't be turned off
18	The HP Diluent power supply can't be turned on
19	The HP Diluent sensor is defective
26	The O2 sensor under test's output is too low
27	The O2 sensor under test's output is so low that it's probably missing
31	The depth sensor is suspect
35	Test failed soft because the battery's CRC was invalid
36	Test failed soft because the backpack's CRC was invalid
46	The bag failed to fill within the expected time
47	Solenoid #1 failed to raise the bag pressure
48	Solenoid #2 failed to raise the bag pressure
49	The bag pressure decreased by an unacceptable amount
50	The bag pressure increased by an unacceptable amount when it should not
57	The battery does not have enough juice to go diving
58	Due to the time since the last learn cycle, it is unknown whether the battery has enough juice to go diving
66	The assumed Fo2 of the diluent is out of range
67	The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Diluent was too low
68	The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Diluent was too high
69	The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too low
70	The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too high
71	The assumed Fo2 of the oxygen is out of range
72	The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too low
73	The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too high
74	The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low
75	The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too high
76	The computed sensor time constant was out of range
77	The mouth piece was moved from the CC position during the calibration
81	The service interval has expired
82	The Display is missing from the network
83	The HUD is missing from the network
84	The Battery is missing from the network
85	A unit was missing during version check
86	Version do not match
87	Voltage is to low on test object
88	Voltage is to high on test object
89	The mouth piece was moved from the OC position during the loop pressure test
90	RTC clock not set to a date after 2013-01-01