

Document ID: TestError SE7EN

Approved by: ThOs

Subject: Test and Error codes, SE7EN

Author: JN Revision: 1.0

Date: 2015-05-06

## Test codes, Poseidon SE7EN

|      | Codes, Poseidoli 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                             |



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| The test timed out The test timed out The test timed out The datalogger IC on the Display is bad The RAM on the PCB under test failed its CRC check The RAM on the PCB under test failed its CRC check The Fuses on the PCB under test failed its CRC check The Fuses on the PCB under test are not set correctly The EFPROM on the CPU under test is corrupted The EFPROM on the CPU under test is corrupted The SW version of the battery does not match the rest of the system A CPU other than battery has a SW version that does not match the rest of the system The quiescent current draw of the system is too low The quiescent current draw of the system is too low The quiescent current draw of the system is too low The QUIT's current draw was too high The DUT's current draw was too high The DUT's current draw was too high The HPC2 power supply can't be turned off The HPC2 power supply can't be turned off The HPC2 power supply can't be turned off The HPD2 power supply can't be turned off The HP Diluent power supply can't be turned on The HPD2 sensor is defective The HP Diluent power supply can't be turned on |       | codes, Poseidon SE/EN   |
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| The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Diluent was too low The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Diluent was too high The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too high The assumed Fo2 of the oxygen is out of range The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too high The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was  | 57    | The battery does not have enough juice to go diving   |
| The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Diluent was too low The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Diluent was too high The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too high The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too high The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too high The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too high The computed sensor time constant was out of range The mouth piece was moved from the CC position during the calibration The service interval has expired The Display is missing from the network The Battery is missing from the network The Battery is missing from the network A unit was missing during version check Version do not match Voltage is to low on test object Voltage is to high on test object The mouth piece was moved from the OC position during the loop pressure test   | 58    | Due to the time since the last learn cycle, it is unknown whether the battery has enough juice to go diving |
| The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Diluent was too high The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too high The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too high The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too high The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too high The computed sensor time constant was out of range The mouth piece was moved from the CC position during the calibration The service interval has expired The Display is missing from the network The Battery is missing from the network A unit was missing from the network Version do not match Voltage is to low on test object Voltage is to high on test object The mouth piece was moved from the OC position during the loop pressure test  | 66    | The assumed Fo2 of the diluent is out of range  |
| The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too high The assumed Fo2 of the oxygen is out of range The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too high The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too high The computed sensor time constant was out of range The mouth piece was moved from the CC position during the calibration The service interval has expired The Display is missing from the network The Battery is missing from the network A unit was missing during version check Version do not match Voltage is to low on test object Voltage is to high on test object The mouth piece was moved from the OC position during the loop pressure test  | 67    | The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Diluent was too low        |
| The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too high The assumed Fo2 of the oxygen is out of range The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too high The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too high The computed sensor time constant was out of range The mouth piece was moved from the CC position during the calibration The service interval has expired The Display is missing from the network The Battery is missing from the network The Battery is missing from the network A unit was missing during version check Version do not match Voltage is to low on test object The mouth piece was moved from the OC position during the loop pressure test   | 68    | The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Diluent was too high       |
| The assumed Fo2 of the oxygen is out of range The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too high The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too high The computed sensor time constant was out of range The mouth piece was moved from the CC position during the calibration The service interval has expired The Display is missing from the network The Battery is missing from the network A unit was missing from the network Version do not match Voltage is to low on test object  Voltage is to high on test object The mouth piece was moved from the OC position during the loop pressure test  | 69    | The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too low        |
| The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too high The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too high The computed sensor time constant was out of range The mouth piece was moved from the CC position during the calibration The service interval has expired The Display is missing from the network The Battery is missing from the network  A unit was missing during version check Version do not match Voltage is to low on test object  Voltage is to high on test object The mouth piece was moved from the OC position during the loop pressure test   | 70    | The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Diluent was too high       |
| The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too high The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too high The computed sensor time constant was out of range The mouth piece was moved from the CC position during the calibration The service interval has expired The Display is missing from the network The Battery is missing from the network  A unit was missing from the network Version do not match Voltage is to low on test object  Voltage is to high on test object The mouth piece was moved from the OC position during the loop pressure test   | 71    | The assumed Fo2 of the oxygen is out of range   |
| The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too high The computed sensor time constant was out of range The mouth piece was moved from the CC position during the calibration The service interval has expired The Display is missing from the network The HUD is missing from the network A unit was missing from the network  Key Version do not match Voltage is to low on test object Voltage is to high on test object The mouth piece was moved from the OC position during the loop pressure test   | 72    | The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too low         |
| The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too high The computed sensor time constant was out of range The mouth piece was moved from the CC position during the calibration The service interval has expired The Display is missing from the network The HUD is missing from the network The Battery is missing from the network A unit was missing during version check Version do not match Voltage is to low on test object Voltage is to high on test object The mouth piece was moved from the OC position during the loop pressure test  | 73    | The PO2 calibration failed because the A2D reading off sensor #1 when exposed to Oxygen was too high        |
| The computed sensor time constant was out of range The mouth piece was moved from the CC position during the calibration The service interval has expired The Display is missing from the network The HUD is missing from the network The Battery is missing from the network A unit was missing during version check Version do not match Voltage is to low on test object Voltage is to high on test object The mouth piece was moved from the OC position during the loop pressure test   | 74    | The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too low         |
| The mouth piece was moved from the CC position during the calibration  The service interval has expired  The Display is missing from the network  The HUD is missing from the network  A unit was missing during version check  Version do not match  Voltage is to low on test object  Voltage is to high on test object  The mouth piece was moved from the OC position during the loop pressure test  | 75    | The PO2 calibration failed because the A2D reading off sensor #2 when exposed to Oxygen was too high        |
| The service interval has expired  The Display is missing from the network  The HUD is missing from the network  The Battery is missing from the network  A unit was missing during version check  Version do not match  Voltage is to low on test object  Voltage is to high on test object  The mouth piece was moved from the OC position during the loop pressure test  | 76    | The computed sensor time constant was out of range  |
| The Display is missing from the network  The HUD is missing from the network  The Battery is missing from the network  A unit was missing during version check  Version do not match  Voltage is to low on test object  Voltage is to high on test object  The mouth piece was moved from the OC position during the loop pressure test  | 77    | The mouth piece was moved from the CC position during the calibration                                       |
| The HUD is missing from the network  The Battery is missing from the network  A unit was missing during version check  Version do not match  Voltage is to low on test object  Voltage is to high on test object  The mouth piece was moved from the OC position during the loop pressure test   | 81    | The service interval has expired  |
| 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  | 82    | The Display 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  | 83    | The HUD is missing from the network   |
| 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   | 84    | The Battery is missing from the network   |
| 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   | 85    | A unit was missing during version check   |
| 88 Voltage is to high on test object 89 The mouth piece was moved from the OC position during the loop pressure test   | 86    | Version do not match  |
| 89 The mouth piece was moved from the OC position during the loop pressure test  | 87    | Voltage is to low on test object  |
|  | 88    | Voltage is to high on test object   |
| 90 RTC clock not set to a date after 2013-01-01  | 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  |