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## Quick reference – Error codes Firmware V42

### Error codes (two first digits)

1. Display data logger is accessible
2. Display ROM / RAM
3. Display EEPROM
4. HUD ROM / RAM
5. HUD EEPROM
6. Backpack ROM / RAM
7. Backpack EEPROM
8. Battery ROM / RAM
9. Battery EEPROM
10. Unused #1 ROM / RAM
11. Unused #1 EEPROM
12. Unused #2 ROM/ RAM
13. Unused #2 EEPROM
14. Battery data logger is accessible
15. Firmware version compatibility test
16. Battery State of Charge Test.
17. Display backlight current test
18. HUD LED current test
19. Unused current test
20. Buddy LED current test
21. Unused current test
22. Vibrator current test
23. Unused current test
24. Metabolic O2 solenoid #1 current test
25. Metabolic O2 solenoid #2 current test
26. Calibration O2 solenoid current test
27. Diluent solenoid current test
28. Unused current test
29. Speaker current test
30. O2 Cylinder pressure sensor validation.
31. DIL Cylinder pressure sensor validation.
32. Spare HP sensor validation (HW test)
33. Spare HP sensor validation (HW test)
34. PO2 sensor #1 validation (HW test).
35. PO2 sensor #2 validation (HW test).
36. Spare PO2 sensor validation (HW test).
37. Spare sensor validation
38. Depth/Temperature sensor validation
39. Spare resource test
40. Decompression status verification
41. Spare resource test
42. Spare resource test
43. Mouthpiece OC test
44. Sufficient oxygen to go diving test
45. Sufficient diluent to go diving test
46. Spare resource test
47. Spare resource test
48. Sufficient battery power to go diving test.
49. Positive pressure loop test
50. Mouthpiece CC test
51. Spare Calibration test
52. Spare Calibration test
53. O2 Calibration test
54. Open Circuit regulator test
55. Service Interval test

## Quick reference – Error codes Firmware V42

### Error types (two last digits)

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|--|---|
| 0. The test timed out (failed to complete)   | 45. Reserved  |
| 1. The test passed   | 46. Failed to fill loop   |
| 2. The datalogger IC on the Display is bad   | 47. Solenoid #1 failure   |
| 3. The ROM on the PCB under test failed its CRC check  | 48. Solenoid #2 failure   |
| 4. The RAM on the PCB under test failed its CRC check  | 49. Loop is leaking   |
| 5. The fuses on the PCB under test are set wrong   | 50. Valve leaking   |
| 6. The EEPROM on the CPU under test is corrupted   | 51. The bag pressure increased when it should not, indicating a leaking valve |
| 7. The SW version of the battery does not match the rest of the system                       | 52. Reserved  |
| 8. A CPU other than battery has a SW version that does not match the rest of the system      | 53. Reserved  |
| 9. The quiescent current draw of the system is too low                                       | 54. Reserved  |
| 10. The quiescent current draw of the system is too high                                     | 55. Reserved  |
| 11. The DUT's current draw was too low   | 56. Reserved  |
| 12. The DUT's current draw was too high  | 57. The battery does not have enough juice to go diving                       |
| 13. The datalogger IC on the battery is bad  | 58. Reserved  |
| 14. The HPO2 power supply can't be turned off  | 59. Reserved  |
| 15. The HPO2 power supply can't be turned on   | 60. Reserved  |
| 16. The HPO2 sensor is defective   | 61. Reserved  |
| 17. The HP Diluent power supply can't be turned off  | 62. Reserved  |
| 18. The HP Diluent power supply can't be turned on   | 63. Reserved  |
| 19. The HP Diluent sensor is defective   | 64. Reserved  |
| 20. Reserved   | 65. Reserved  |
| 21. Reserved   | 66. Diluent FO2 is bad  |
| 22. Reserved   | 67. Primary DIL is low  |
| 23. Reserved   | 68. Primary DIL is high   |
| 24. Reserved   | 69. Secondary DIL is low  |
| 25. Reserved   | 70. Secondary DIL is high   |
| 26. The O2 sensor under test's output is too low   | 71. Oxygen FO2 is bad   |
| 27. The O2 sensor under test's output is so low that it's probably missing                   | 72. Primary O2 is low   |
| 28. Reserved   | 73. Primary O2 is high  |
| 29. Reserved   | 74. Secondary O2 is low   |
| 30. Reserved   | 75. Secondary O2 is high  |
| 31. The depth sensor is suspect  | 76. Bad time constant   |
| 32. Reserved   | 77. Not in CC mode  |
| 33. Reserved   | 78. Reserved  |
| 34. Reserved   | 79. Reserved  |
| 35. Test failed soft because the battery's CRC was invalid                                   | 80. Reserved  |
| 36. Test failed soft because the backpack's CRC was invalid                                  | 81. The service interval has expired  |
| 37. Test failed soft because the battery serial number has changed                           |   |
| 38. Test failed soft because the battery & backpack disagreed on the TOD that diving stopped |   |
| 39. Test failed hard because both the battery & backpack CRC were invalid                    |   |
| 40. Reserved   |   |
| 41. Reserved   |   |
| 42. Reserved   |   |
| 43. Reserved   |   |
| 44. Reserved   |   |