

**EMC test laboratory, ELEMCOM Ltd  
190008, Saint-Petersburg, Lotsmanskaya str., 3**

Certificate  
**AKP.0103-18 RMF**  
Ministry of transport of the  
Russian federation  
valid until 01.03.2011

Recognition certificate  
06.00998.011 Russian maritime  
register of shipping  
valid until 21.06.2011

Recognition certificate 2621  
Russian river register  
valid until 20.02.2009

APPROVED  
General director  
ELEMCOM Ltd.

A. Worshevsky  
"13" January 2009 г.

**EMC TEST REPORT N 90101**

**Dive PPCO2 Monitor**

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The test results in this report apply only to tested sample of EUT)

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Saint-Petersburg  
2009 г

Equipment Under Test (EUT): Dive Monitor  
Model: PPCO2  
Serial number: PC001



Manufacturer: EMA Ltd, Zetland Road, Hillington Industrial Estate, Glasgow, Scotland G52 4BW  
Applicant (Design Authority): Deep Life Ltd, 9-11 Jubilee House, Saltire Business Park, Glenrothes, Scotland. KY6 2AH  
OEM (Sales and Branding): Open Safety Equipment Ltd, Zetland Road, Hillington Industrial Estate, Glasgow, Scotland G52 4BW  
Power Requirements: Battery  
Date of Receipt of EUT: 30.12.2008  
Date of Testing: 30.12.2008, 06.01.2008  
Tested according to: EN 61000-6-1  
EN 61000-6-3  
Ambient condition: Temperature 17-20°C, Humidity 32-52%, Atm. Pressure 762-778 mm  
Test Site: EMC Test laboratory, Elemcom Ltd, Lotsmanskaya 3, Saint-Petersburg, Russia

### Test equipment

Type of Test Equipment	Manufacture	Calibration certificate	Calibrated till
ESD Simulator <b>ESR-8000K</b> , No 22	Elemcom Ltd	No 432-907-2008	April 2010
Electromagnetic field Simulator <b>UEMP-0,15-2000</b>	Elemcom Ltd	No 433-2797-2008	October 2010
Magnetic Field Simulator <b>IMP-1000</b> , No 8	Elemcom Ltd	No 432-1664-2007	July 2009
Spectrum Analyser 2399B, No I06052036	IFR	No 0099659	June 2009
Antenna П6-61, No 40-05	OAO MNIPI	No 3217/2400	June 2009
Antenna П6-62, No 40-05	OAO MNIPI	No 3218/2400	June 2009

Modes of EUT operation:

The Dive PPCO2 monitor was demonstrated by showing a 0.00% CO2 when exposed to the room atmosphere, and increased up to 4% when breathed into it. The status indicators were updated regularly, showing the device had not hung even when showing the ambient CO2 level

Performance criteria:

A. Normal performance within the specification limits. No change of operation state.

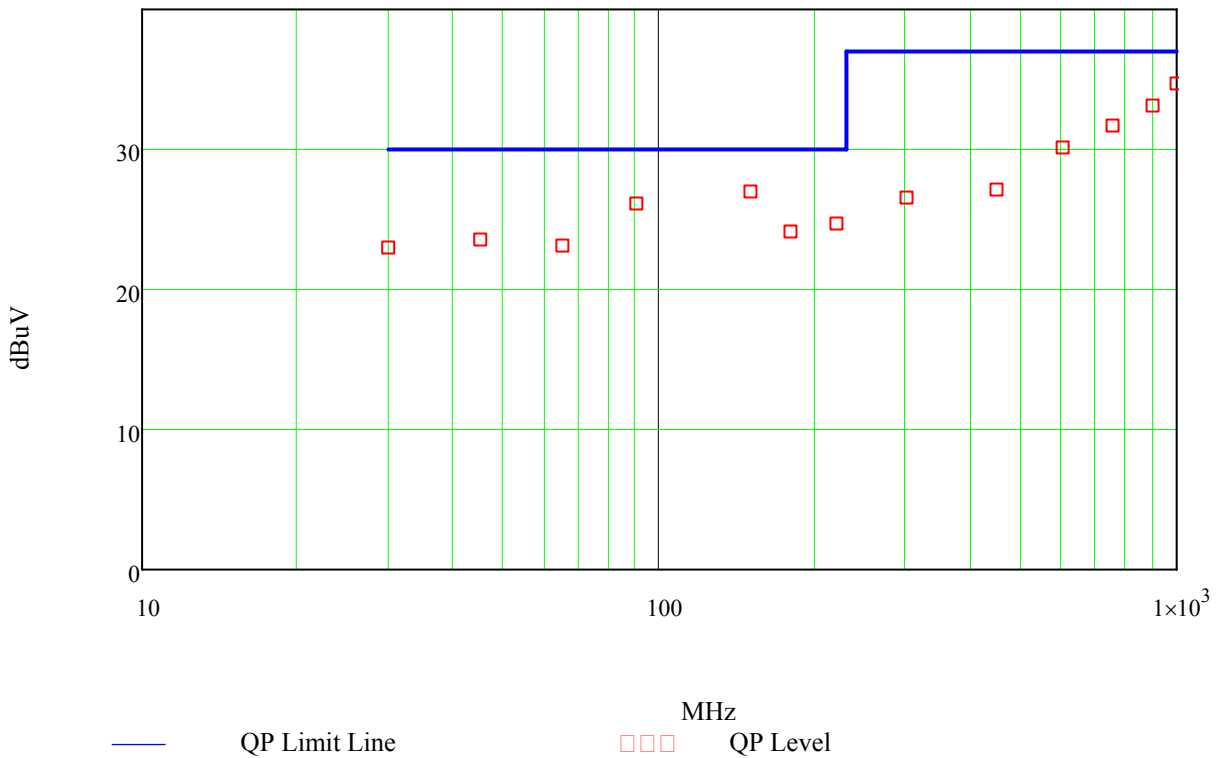
### Immunity Test Result

Type of interference	Port of equipment	Value	Result
Electrostatic discharge EN 61000-4-2	Case (all buttons, all screw, all metal path, underwater connector pens, LED lenses)	Contact ± 4	Pass
		Air ± 8	Pass
Electromagnetic field EN 61000-4-3	Case	80-1000 MHz 3 V/m 80 % AM 1 kHz sinus	Pass
Magnetic field EN 61000-4-8	Case	3A/m 50 Hz	Pass

Remarks: No change of operating state.

### Radiated Emission Test Result

Test standard: CISPR 22



Freq (MHz)	QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30	23	30	7
45	23.6	30	6.4
65	23.2	30	6.8
90	26.1	30	3.9
150	27	30	3
180	24.2	30	5.8
220	24.7	30	5.3
300	26.6	37	10.4
450	27.1	37	9.9
600	30.1	37	6.9
750	31.7	37	5.3
900	33.2	37	3.8
1000	33.9	37	3.1

Conclusion: The Dive PPCO2 Monitor s/n PC001 has been tested in accordance EN 61000-6-1 and EN 61000-6-3 and passed.

Test engineer

P.A. Vorshevskiy