



# CERTIFICATE OF CONFORMITY



1. **Certificate Number ITS No. Ex 06E25226X**
2. This Certificate is issued for the electrical apparatus:  
**Revolution Monitoring system (RMS), Model: BP240R**
3. Manufactured and submitted for Certification by:
4. **BIOMARINE, INC**  
456 Creamery Way, Exton, PA 19341, USA
5. This electrical apparatus and any acceptable variation thereto is specified in the Schedule to this Certificate and the documents therein referred to.
6. Intertek being a UKAS Accredited Certification Body (Number 121) (EN45011: 1988) certifies that the apparatus has been found to comply with harmonised European Standards:  
EN 50014:1997 +A1 & A2, EN 50020: 2002 EN 50284:1999 and EN 50303:2000  
and has successfully met the examination and test requirements recorded in confidential Report reference Intertek 3090122-E01 dated 21 April 2006 (Project No 05018036)
7. The apparatus marking shall include the code:

**EEx ia I/IIC T4 (Tamb = -20°C to +60°C)**

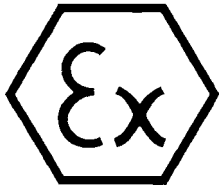
8. The manufacturer of the electrical apparatus referred to in this Certificate has the responsibility to ensure that the apparatus conforms to the specification laid down in the Schedule to this Certificate and has satisfied routine verifications and tests specified therein.
9. This apparatus may be marked with the Distinctive Community Mark specified in Annex II to the Council Directive of 16 January 1984 (84/47/EEC). A facsimile of this mark is printed on sheet 1 of this Certificate.

Certificate Approved by:

**A T Austin**  
Head of Department  
12<sup>th</sup> December 2006

**Intertek Testing & Certification Ltd**  
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB  
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977  
<http://www.uk.intertek-etlsemko.com>

Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA  
This Certificate is the property of Intertek Testing and Certification Ltd.



# SCHEDULE

**Certificate Number ITS No. Ex 06E25226X**

## APPARATUS

The RMS product is an electronic monitoring system forming part of a Self Contained Breathing Apparatus (SCBA). The unit provides an alarm that monitors the oxygen bottle pressure and condition of the cooling ice.

The apparatus is powered from one 9V alkaline battery. Four battery types are permitted: Energizer 522, Panasonic 6AM6, Rayovac A1604 or Duracell MN1604.

The unit is housed within a plastics enclosure with anti-static properties and provides a Degree of Protection of at least IP54.

Connections are made via sealed connectors and cables to four (4) external sensors for pressure and temperature.

Intrinsic safety is assured by limitation of capacitance, inductance, infallible current limiting resistors, infallible segregation and limitation of current, voltage and power and by the use of the specified batteries.

## SPECIAL CONDITIONS FOR SAFE USE

The product (RMS) shall be installed inside the 240R BioPack Self-Contained Breathing Apparatus housing when used in a potentially explosive atmosphere.

The battery must only be changed in a non-hazardous location.

## DRAWINGS

Number	Issue	Date	Pages	Description
D47C016	E	13 April 2006	2	Monitoring System Assembly Certification Drawing
B6-01-5000-05-0	D	27 March 2006	4	BP240R Sensor Module (BOM)
B6-01 -5000-07-1	D	27 March 2006	2	BP240R Circuit Cluster (BOM)

### Intertek Testing & Certification Ltd

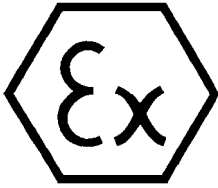
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB

Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977

<http://www.uk.intertek-etlsemko.com>

Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

This Certificate is the property of Intertek Testing and Certification Ltd.



# SCHEDULE

**Certificate Number ITS No. Ex 06E25226X**

Number	Issue	Date	Pages	Description
D47D071	I	8 March 2006	1	Sensor Module Front Housing Reference Drawing
D47D072	H	8 March 2006	1	Sensor Module Rear Housing Reference Drawing
B47D185	B	8 March 2006	1	RMS Battery Door Machine Drawing
B47D186	B	8 March 2006	1	RMS Battery Door Gasket Machine Drawing
SC-E-0808	B	24 March 2006	1	B240R Monitor Intrinsic Safety Control Schematic
6-01-5000-07-0	G	15 March 2006	1	B240R Battery Pack (BOM)
AS-B-2957	G	15 March 2006	1	B240R Monitor Battery PCB Assembly Drawing
MA-C-0174	F	15 March 2006	1	B240R Monitor Battery PCB Fabrication Drawing
AR-B-0820	D	4 November 2005	7	B240H Monitor Battery PCB
6-01-5000-15-0	G	14 March 2006	4	PCB, B240R 2nd Gen Alarm (BOM)
AS-C-2938	G	13 March 2006	1	B240R Monitor Alarm PCB Assembly Drawing
MA-C-0181	F	13 March 2006	1	B240r Alarm PCB Fabrication Drawing
AR-B-0828	D	17 January 2006	10	B240R Monitor Alarm PCB
6-01-5000-17-0	C	14 March 2006	1	B240R RMS Horn PCB (BOM)
AS-B-2983	C	14 March 2006	1	Horn Zener PCB Assembly Drawing
MA-B-0180	B	14 March 2006	1	Horn Zener PCB Fabrication Drawing
AR-B-0825	A	29 November 2005	7	Horn Zener PCB

**Intertek Testing & Certification Ltd**

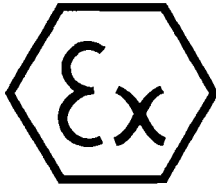
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB

Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977

<http://www.uk.intertek-etlsemko.com>

Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

This Certificate is the property of Intertek Testing and Certification Ltd.



# SCHEDULE

**Certificate Number ITS No. Ex 06E25226X**

Number	Issue	Date	Pages	Description
C47D172	D	23 March 2006	1	Monitor System Certification Label Artwork Reference
B47D171	D	23 March 2006	1	Battery Warning Label Artwork Reference
B47D202	C	27 March 2006	1	RMS Manufacturing Date Label Artwork Reference
B47D132	D	26 March 2006	1	RMS Serial Number Label Set Artwork Reference
A470134	B	NA	19	BIOPACK 240 REVOLUTION User Instruction Manual
A470135	C	NA	40	BIOPACK 240 REVOLUTION Benchman Instruction Manual

Certificate originally issued on 22<sup>nd</sup> June 2006.  
Re-issued on 12<sup>th</sup> December to correct typographical errors

**Intertek Testing & Certification Ltd**  
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB  
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977  
<http://www.uk.intertek-etlsemko.com>

Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA  
This Certificate is the property of Intertek Testing and Certification Ltd.