



Marine Equipment Directive Module B Type Examination Certificate

This is to certify that TÜV SÜD BABT did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Radio requirements of Marine Equipment Directive 96/98/EC as amended by Commission Directive 2010/68/EU and that the equipment of

Orolia Limited

of

Silver Point
Airport Service Road
Portsmouth
PO3 5PB
United Kingdom

known as

**McMurdo SMARTFIND E5 EPIRB, V2
McMurdo SMARTFIND G5 GPS EPIRB, V2
Kannad Marine Manual EPIRB, V2
Kannad Marine Automatic EPIRB, V2**

conforms to the relevant requirements for a 406 MHz EPIRB as defined in Marine Equipment Directive Annex A.1/5.6 as defined in Commission Directive 2010/68/EU

on the basis of the Technical Data and information detailed in the Annex to this certificate.

Signed:

On Behalf of TÜV SÜD BABT

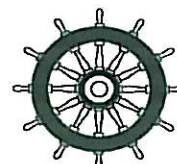
Issue Date: 25th April 2012

Number: BABT-MED001055 Issue: 01

This certificate has been issued in accordance with the Certification Regulations of TÜV SÜD BABT (Notified Body Number 0168) and constitutes page 1 of the combined Certificate and Annex

This certificate is valid from 25th April 2012 until not later than 26th June 2016

The Conditions for the validity of this certificate are listed in the Annex.
For further details related to this certification please contact Customer.Services@babt.com



0168

TÜV SÜD BABT • TÜV SÜD Group
Forsyth House • Churchfield Road • Walton-on-Thames • Surrey • KT12 2TD • United Kingdom



Marine Equipment Directive Module B Type Examination Certificate

Description of Equipment

406 MHz Emergency Position Indicating Radio Beacon (EPIRB)

Model: McMurdo SMARTFIND E5 EPIRB, V2^{*1, 3, 4}
 McMurdo SMARTFIND G5 GPS EPIRB, V2^{*1, 2, 3, 4}
 Kannad Marine Manual EPIRB, V2^{*1, 3, 4, 5}
 Kannad Marine Automatic EPIRB, V2^{*1, 3, 4, 6}

with: Manual Release bracket^{*7}
 or Float-free Auto Housing^{*8}

Standards

IEC 61097-2:2008
IEC 60945:2002 (Inc. Corr1:2008)

IMO Resolutions

A.810 (19) as amended by MSC
56(66) & MSC 120(74).
MSC/Circ. 862
A.694 (17)

Manufacturer:

Name: As Holder
Address: As Holder

Relevant Technical Documentation

User Guide: Smartfind E5/G5 User Manual,
 Part No. 82-810-001 Issue 6, 2011-05-31
 Kannad Marine EPIRB User Manual,
 Part No. 82-810-005 Issue 1, 2011-05-31

Test report numbers: *IEC 60945:2002* *McMurdo Carrtr210806TO, 2006-10-16*
 (Inc. Corr1:2008) *OR614667/01 Issue 2, 2006-07-14*
 RM614667/05 Issue 2, 2006-08-25
 75911555 Report 01 Issue 2, 2011-02-28



IEC 61097-2:2008 RM614667/01 Issue 3, 2006-07-18
 RM614667/02 Issue 2, 2006-07-12
 RM614667/03 Issue 1, 2006-06-16
 RM614667/05 Issue 2, 2006-08-25
 RM615489/02 Issue 2, 2006-09-27
 75911555 Report 01 Issue 2, 2011-02-28
 QINETIQ/D&TS/SES/TC0613291 Issue 1.1,
 2006-10-18
 QINETIQ/D&TS/SES/TC0615574 Issue 1.0,
 2006-12-08
 75911555 Report 02 Issue 2, 2011-03-10
 75911555 Report 03 Issue 1, 2011-01-04
 Statement on GNSS Receiver, 2011-04-26

Approved Software: 82-850Z Issue 4

Approved Hardware : Overall Build Level: Common 82-1000F
 GPS Model 82-877
 Non-GPS Model 82-878
 V2 EPIRB Family Tree, 2011-05-31

Additional Information:

The product listed on this certificate was originally assessed and certified by QinetiQ under Notified Body number 0191. This certificate replaces QinetiQ Certificate Number QQ-MED-05/11-01.

Technical Characteristics

PARAMETER	PROVISION	COMMENT
FREQUENCY OF OPERATION	406.040MHz and 121.5MHz	TRANSMIT Only GPS Equipped models Receive GPS C/A code signals at 1575.42MHz
EMISSION CODE	16K0G1D 3K20A3X	
POWER CHARACTERISTIC	5W 50mW	- 406.0 – 406.1 MHz - 121.5MHz
GNSS Location Device fitted (if indicated in H/W list above)	Internal GPS module	Module meets relevant requirements of EN 61108-1 Average error, Static accuracy within 13 metres.
TEMPERATURE RANGE	-20°C to +55°C.	- Class 2 Note: Hydrostatic release operation tested at -30°C and +70°C
Category 1 & Category 2		
POWER SOURCE	9V lithium Battery Pack	48hour minimum battery life at -20°C. Label shows expiry date. Battery not user replaceable.



***NOTES:-**

- 1 The V2 designator appears on the left-hand panel of the front label.
- 2 This EPIRB is additionally equipped with GPS Receiver and long message capability for precision position location.
- 3 All the above EPIRB beacon units are tested and assessed to Class 2 temperature requirements.
- 4 These beacons have additionally been assessed to the requirements of IMO A814(19), Annex clause 2.1 to 2.5.
- 5 This EPIRB is supplied together with a manual release bracket. (see also note 7).
- 6 This EPIRB is supplied together with a float-free auto housing. (see also note 8).
- 7 The Assembly of this beacon in the manual release bracket forms a carry-off EPIRB (Category 2) complying with Annex 1 of IMO Resolution A810(19) except clause 2.2. Their installation on vessels may be restricted by administrations until the mandatory carriage requirements for Category 1 EPIRBs are satisfied.
- 8 The Assembly of this beacon in the auto-housing forms a Category 1, automatic float free release EPIRB, and may be fitted with either McMurdo 'BreakTHRU' or Hammar 'H20' disposable Hydrostatic Release Units. These units have been tested for correct hydrostatic release at temperatures of -30°C and + 70°C.
- 9 Marine COSPAS-SARSAT 406MHz EPIRBs form a distress alerting component of the Global Maritime Distress & Safety System (GMDSS). These beacons have been granted COSPAS-SARSAT Type Approval certification No.204, dated 10 May 2010.

Conditions of Validity

The assessed equipment is also in compliance with Directive 96/98/EC, as amended by Commission Directive 2011/75/EU, this Module B Certificate is also valid under that amendment.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TÜV SÜD BAPT or a person appointed by TÜV SÜD BAPT to perform that role.

Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on board vessels to which the amended regulations or standards apply.

The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

Signed: 

on behalf of TÜV SÜD BAPT

Date: 