



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 Navigation 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 S4 RESCUE SART
Kannad Marine Rescuer 2 SART**

conforms to the relevant requirements for a 9GHz SAR Transponder (SART) as defined in Marine Equipment Directive Annex A.1/4.18 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

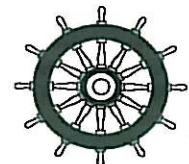
Number: BABT-MED001058 Issue: 01

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 06th October 2014

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



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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

9 GHz Search And Rescue Radar Transponder

Model: McMurdo S4 RESCUE SART
 Kannad Marine Rescuer 2 SART

Standards

IEC 61097-1: 2007
IEC 60945:2002 (Inc. Corr1:2008)

IMO Resolutions

A.530(13)
A.802(19)
A.694(17)

Manufacturer:

Name: As Holder
Address: As Holder

Relevant Technical Documentation

User Guide: S4 Rescue SART User Manual,
 86-920-001 Issue 6, 2009-09-30
 Kannad Marine Rescuer 2 User Manual,
 86-920-002 Issue 1 (Draft), 2010-03-25

Test report numbers: *IEC 61097-1: 2007:* RM610860/01 Issue 1, 2003-10-15
 IEC 60945:2002: 3097, 2005-02-16
 (Inc. Corr1:2008) 005-05, 2005-02-22
 031-04, 2004-12-21
 030-04, 2004-12-20

Approved Hardware : Overall Build Level 86-900F
 S4 Family Tree, 2012-01-10



Additional Information:

The products listed on this certificate were originally assessed and certified by QinetiQ under Notified Body number 0191. This certificate replaces QinetiQ Certificate Numbers QQ-MED-20/09-01 and QQ-MED-20/09-04.

Technical Characteristics

PARAMETER	PROVISION	COMMENT
FREQUENCY OF OPERATION	TRANSMIT:	9.2 to 9.5 GHz
	RECEIVE:	9.2 to 9.5 GHz
CHANNELS	N/A	Swept response covers transmit frequency band
EMISSION CODE	300MP0NAN	12 sweep response
ANTENNA POLARISATION	Horizontal	
RF POWER OUTPUT	400mW to 1W	Fixed
TEMPERATURE RANGE & IEC 60945 CLASS -	-20°C to +55°C Portable	Operational temperature range
POWER SUPPLY	11.5V/5.5V DC	Internal Lithium primary cells.


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: 	Date: <i>25th April 2012</i>
on behalf of TÜV SÜD BAPT	