

EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

Radio Equipment Directive (RED) 2014/53/EU

PHOENIX TESTLAB
Notified Body Number **0700**



This is to certify that:
PHOENIX TESTLAB did undertake the relevant type examination procedures for the radio equipment identified below which was found to be in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU subject to any conditions in the annex attached hereto.

Certificate No.	17-112026
Manufacturer	Orolia Ltd.
Address	Silver Point, Airport Service Road Portsmouth Hampshire, PO3 5PB United Kingdom
Product Description	AIS Receiver / AIS Receiver with Splitter
Brand Name Model Name	McMurdo Smartfind M15, Smartfind M15S Orolia Type Z604, Z605

The radio equipment meets the following essential requirements

Article 3.1 a): Health and Safety	Conform
Article 3.1 b): Electromagnetic Compatibility	Conform
Article 3.2: Effective and Efficient Use of Radio Spectrum	Conform
Additional Essential Requirements	Not assessed

Date of issue	2017-09-15	Expiry date:	2022-09-14
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This certificate remains valid unless cancelled or revoked, provided the conditions in the attached annex are complied with. The conditions for the validity of this certificate are listed in the Annex.

The attached Annex forms part of this certificate. This certificate consists of 3 pages.



Signed by Klaus Knörig
Notified Body

Annex

Technical description

Frequency Range	161.975 MHz and 162.025 MHz (AIS 1 and AIS 2)
Channel Bandwidth	25 kHz
Transmit Power	Not applicable, receive-only
Hardware Version	M-PCB-B100RXSBV02
Software Version	V1.10
Operating temperature range	-15°C to +55°C

System Components

Main Unit	Orolia Type Z604 (M15) and Orolia Type Z605 (M15S) Orolia Type Z605 (M15S) with built-in VHF/AIS splitter
VHF antenna	External, SO-239 female connector

Approval documentation

External / Internal Photos	External and Internal Photos, 3 pages
Instruction Manual	Smartfind M15, M15S AIS Receiver User Manual, Issue 5, 60 pages
Block Diagram	Block Diagram, 1 page, 2016-09-23
Circuit Diagram	Schematic_M-PCB-B100LEDBV3, 1 page, 2016-05-16 Schematic_M-PCB-B100RXSBV02, 8 pages, 2016-09-29
Operational Description	Operational Description, 1 page
PCB Layout and Parts Placement	PCB layout_M-PCB-B100LEDBV3, 1 page PCB layout_M-PCB-B100RXSBV02, 4 pages
EU Declaration of Conformity	Declaration of Conformity, 1 page (Draft)
Explanation of compliance Article 10(2) and Article 10(10)	Declaration of compliance with Article 10(2) & Article 10(10), 1 page, 2017-09-06 Receive-only, no restrictions
Further Documents	RED-Z604 Compliance Rationale, 2 pages, 2017-09-06 TCF Waiver Document AIS Receiver, 10 pages, 2017-07-20 Hardware and Software Information, 1 page M15 Product Label draft M15S Product Label draft Risk Assessment of Z604/Z605 AIS receiver, 3 pages, 2017-09-06


Applied Standards and Test Reports

Specification	Laboratory	Test Report Number / Version
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013	BTL	BTL-LVD-1-S1410141B
IEC 60945:2002 + Corrigendum 1:2008 Clause 9 and 10 EMC tests	Compliance Certification Services Inc.	T160416W03-E
IEC 62287-1:2010 + AMD1:2013 Clause 11, Physical radio tests	PHOENIX TESTLAB GmbH	F171448E1
IEC 60945:2002 + Corrigendum 1:2008 Clause 8.12, Corrosion	IST	HS1303150050A-2
IEC 60945:2002 + Corrigendum 1:2008 Clause 11.2 Compass safe distance	BSH	Certificate No. 814

Limitations / Restrictions

Device does not transmit AIS messages and is only for use in recreational vessels, small commercial, leisure and fishing boats etc.

Notes

1. 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 PHOENIX TESTLAB.
2. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/them being placed on the market.
3. The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured radio equipment with the approved type described in the EU-type examination certificate and with the requirements of Directive 2014/53/EU that apply to it.
4.  The manufacturer shall affix the CE marking to each item of radio equipment that is in conformity with the type described in the EU-type examination certificate and satisfies the applicable requirements of the Directive.
5. The manufacturer shall draw up a written EU declaration of conformity for each radio equipment type and keep it at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market. The EU declaration of conformity shall identify the radio equipment type for which it has been drawn up. A copy of the EU declaration of conformity shall be made available to the relevant authorities upon request.