ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

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 2015/559/EU and that the equipment of

SRT Marine Technology Ltd

of

Wireless House
Westfield Industrial Estate
Midsomer Norton
Bath
BA3 4BS
UK

known as

Apollo 425-0002

conforms to the relevant requirements for the following equipment as listed in Marine Equipment Directive:

Annex A.1/4.32 Universal Automatic Identification System (AIS)

as defined in Commission Directive 2015/559/EU

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

Signed: T. J Twyman Issue Date: 28 June 2016

On Behalf of TÜV SÜD BABT Number: BABT-MED000101 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 28 June 2016 until not later than 27 June 2021

The Conditions for the validity of this certificate are listed in the Annex.
For further details related to this certification please contact BABT@TUV-SUD.co.uk

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TÜV SÜD BABT • TÜV SÜD Group
Octagon House • Concorde Way • Fareham • Hampshire • PO15 5RL • United Kingdom

Annex to

Marine Equipment Directive Module B Type Examination Certificate

Description of Equipment

Marine AIS Class A Transponder

Model: 425-0002

Compliance Matrix For MED Item A.1/4.32

IMO Resolutions	International Testing Standards	
IMO Res. MSC 74(69) ITU-R M. 1371-5 (2014)	IEC 61993-2 Ed.2 (2012)	Maritime navigation and radiocommunication equipment and systems –Automatic identification systems (AIS) Part 2: Class A shipborne equipment of the automatic identification system (AIS)
	IEC 61162-1 Ed.2 (2010)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 1: Single talker and multiple listeners
	IEC 61162-2 Ed.1 (1998)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 2: Single talker and multiple listeners, high-speed transmission
	IEC 61162-3:2008 +A2:2014	Maritime navigation and radiocommunication equipment and systems — Digital interfaces — Part 3: Serial data instrument network
IMO Res. A.694(17)	IEC 60945 Ed.4 (2002)	General Requirements for Marine Navigation Equipment" (Inc. Corr1:2008)
IMO Res. MSC.191(79)	IEC 62288 Ed.2 (2014)	Presentation of navigation-related information

Manufacturer:

Name: As Holder

Relevant Technical Documentation

User Guide: AIS Class A / Inland Transceiver Installation and Operation Manual, Part No. 201-0625 Revision 6, 2016-05-31

Test report numbers:	IEC 60945:2002 (inc Corr.1)	APO-2854, 2016-03-30 75929063 Report 09 Issue 1, 2016-04-05 5960, 2015-05-19 15R174 CR, 2016-01-21 75929063 Report 02 Issue 1, 2015-06-03 TRA-024860-43-00A, 2015-03-17
	IEC 61993-2:2012	BSH/4543/001/4322830/15-1, 2016-03-07 BSH/4542/001/4112945/15, 2015-09-21 75929063 Report 05 Issue 1, 2015-12-16 75929063 Report 06 Issue 1, 2015-12-16
	IEC 62288:2014	75929063 Report 08, 2016-04-05
	IEC 61162-1:2010	BSH/4543/001/4322830/15-1, 2016-03-070
	IEC 61162-3: 2008 +A2:2014	Exhibit 24 - NMEA 2000 information, 2016-06-06
	IEC 61108-1:2003	75929063 Report 06 Issue 1, 2015-12-16
	IEC 61108-2:1998	75929063 Report 07 Issue 1, 2015-12-16

Approved Software [Note 1]***:***	AIS modem software version	110200.01.02
	MKD software version	110400.01.09
	AIS modem PCA hardware version	5.0
	MKD PCA hardware version	5.0

Approved Hardware : Circuit Diagrams:
Apollo Main PCA, Drawing No. 011-0069 Rev 5, 2015-07-12
Apollo MKD Drawing No. 011-0070 Rev 5, 2015-12-07
Apollo Junction Box, Drawing No. 011-0077 Rev 4, 2015-06-22
Apollo SD Card PCB, Drawing No. 011-0083 Rev 2, 2014-10-20

NOTES:

1- This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the Certification Regulations of TÜV SÜD BABT.
2- Enabling additional features may invalidate compliance with the Marine Equipment Directive. The manufacturer should be consulted before enabling any additional features.
3- The Apollo 425-0002 has a WiFi interface. Operation of this interface was assessed against, or in excess, of IEC 60945 Environmental and EMC conditions in addition to regulatory testing of the WiFi Module.
4- IEC 61162-3:2008+A2:2014 Annex A contains details of installation documentation and validation.

U.S. Coast Guard Number :

This product has been assigned U.S. Coast Guard Module B number

165.155/EC0168

To note type approval to Module B only as it pertains to obtaining US Coastguard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004

Conditions of Validity

This issue of the Annex to the referenced Marine Equipment Module B Certificate relates to Issue 01 of the Certificate.

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 BABT or a person appointed by TÜV SÜD BABT 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:.. T.J. Turpin ..... Date: 28th June 2016

on behalf of TÜV SÜD BABT