

Bundesrepublik Deutschland

Federal Republic of Germany

Bundesamt für Seeschifffahrt und Hydrographie

Federal Maritime and Hydrographic Agency



Konformitätsbestätigung Statement of Conformity No. Nr. BSH/4542/002/4322971/15

Die nautische Ausrüstung The nautical equipment AIS AtoN

mit der Typbezeichnung with the type designation

VegaAIS AIS AtoN

des Herstellers manufactured by

Vega Industries Limited

21 Heriot Drive Porirua

WELLINGTON 5022 NEW ZEALAND

ist nach den folgenden Normen/Standards, soweit für diesen Ausrüstungsgegenstand anwendbar, erfolgreich geprüft worden.

has been tested successfully according to the following standards as applicable for this equipment:

Norm/Standard	Prüfnorm/Test Standard	
ITU-R M.1371-5 (as far as relevant for an AtoN)	IEC 62320-2 Ed.1 (2008)	
	IEC 61108-1 (2003)	
	IEC 61162-1 Ed. 4 (2010)	

Dem Antragsteller wie oben / as above It is hereby confirmed to the applicant

wird die Eignung für den nachstehenden Verwendungszweck bestätigt: AIS AtoN that the equipment is suitable for use as: AIS AtoN

Hamburg, 2015-10-02

Im Auftrag
For the Federal Maritime and Hydrographic Agency

Dienstsiegel Official seal



Doreen Thoma

1. Bestandteile der Ausrüstung Components of the equipment

1.1 Bestandteile, die zum Betrieb erforderlich sind

Components necessary for operation

Component	Type or part number	Remarks	
AIS AtoN	VAIS	Tested with software version 5.13.11635M	
GPS antenna	MA-700	Or equivalent	
VHF antenna			

1.2 Zusätzliche Optionen / Anlagenkombinationen

Additional options / combinations of the equipment

2. Ausnahmen Exceptions

3. Dokumentation Documentation

VegaAIS AtoN Station, Installation and Operation Manual Version 1.0.11, 24th September 2015

Test report BSH/4542/001/4322514/14-1 Assessment report BSH/4542/002/4322970/15-4 Assessment report BSH/4542/002/4322514/15-5 Test report BSH/46162/4321414/10 (Test for IEC 62320-1) (Physical radio tests) (Environmental tests IEC 60945) (GPS test)

Composition of the AIS AtoN station

AtoN station name:	VegaAIS AIS AtoN
Type of AIS AtoN Station ☑ Type 1	☐ Type 2
☑ Type 3	
Configuration method ☑ Standard PI sentences	□ Proprietary manufacturer sentences
Control receiver	AIS Standard VDL messages
Positioning device EPFS and surveyed position	Surveyed position only
Transmission Single channel transmission only Note) A marked "Single channel transmission of channel mode. The unit can transmit on one channel mode.	Tx message 21 for synthetic/ virtual AtoN only" means that the device is not able for dual nannel only.
Transmit power:	12.5 W
Virtual AtoNs Up to 3 virtual AtoNs are supported	
Access mode msg 21 ☑ FATDMA	□ RATDMA (type 3 only)
Access mode other messages ☑ FATDMA	□ RATDMA (type 3 only)
CSTDMA (type 3 only)	
Syncronisation: Indirect UTC (type 3 only)	Semaphore station (type 3 only)
Chaining: Chaining implemented (type 2 and 3 onless)	(y)

Implemented alternatives

According to last column of table 1 of IEC 62320-2

Option	For AtoN type	Implemented	Remark
Tx of message 6	1, 2, 3	Yes	Index 0: Internally generated, Destination MMSI defined by \$PVSP,ATON,ADDR, <mmsi> Index > 0: Content defined by MEB</mmsi>
Tx of message 7	3	Yes	Ackn. of message 6
Tx of message 8	1, 2, 3	Yes	Index 0 & 1: Internally generated, Index > 1: Content defined by MEB
Tx of message 12	1, 2, 3	Yes	Data applied by MEB sentence
Tx of message 13	3	Yes	Ackn. of message 12
Tx of message 14	1, 2, 3	Yes	Data applied by MEB sentence
Tx of message 25	1, 2, 3	No	

Five MEB payloads may be stored. The corresponding CBR is used to determine the broadcast rates for the stored message.

For message 6, index 0, the Destination MMSI is applied through a private sentence with the following field usage:

\$PVSP,ATON,ADDR,<MMSI>*hh

External Interfaces:

RS232 on the Beacon connector.

There are further interfaces for specific optional functions.