



Bundesrepublik Deutschland

Federal Republic of Germany

Bundesamt für Seeschifffahrt und Hydrographie

Federal Maritime and Hydrographic Agency



BUNDESAMT FÜR
SEESCHIFFFAHRT
UND
HYDROGRAPHIE

Konformitätsbestätigung

Statement of Conformity No.

Nr. BSH/4542/002/4322515/15

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, 2015-03-12



Im Auftrag

For the Federal Maritime and Hydrographic Agency

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 5.11.9255
GPS antenna	MA-700	Or equivalent
VHF antenna	---	

1.2 Zusätzliche Optionen / Anlagenkombinationen
Additional options / combinations of the equipment

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2. Ausnahmen
Exceptions

3. Dokumentation
Documentation

Test report BSH/4542/001/4322514/14-1
Assessment report BSH/4542/001/4322514/14-4
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)

Manual: VegaAIS AtoN Monitoring System
Installation and Operation Manual

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

☐ AIS Standard VDL messages

☐ AES encryption of VDL message

☐ Control receiver

Positioning device

☒ EPFS and surveyed position

☐ Surveyed position only

☐ Differential mode with received message 17

Transmission

☒ Single channel transmission

☒ Tx message 21 for synthetic/ virtual AtoN

Transmit power: 12,5 Watt

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 only)

Implemented alternatives

According to last column of table 1

Option	For AtoN type	Implemented	Remark
Tx of message 6	1, 3	Yes	Index 0 for internally generated data, Index > 0 defined by MEB
Tx of message 7		No	
Tx of message 8	1, 3	Yes	Index 0 and 1 for internally generated data
Tx of message 12	1, 3	No	
Tx of message 13	3	No	
Tx of message 14	1, 3	No	
Tx of message 25	1, 3	No	

External Interfaces: RS232 on the Beacon connector.

There are further interfaces for specific optional function.