

EC Certificate

Type Examination (Module B)



This is to certify that:

Germanischer Lloyd, a Notified Body under the terms of the Marine Equipment Directive 96/98/EC of 20 December 1996, notified by the German Federal Ministry of Transport, Building and Urban Development, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 96/98/EC as amended, subject to any conditions in the schedule attached hereto.

Certificate No. **61 739 - 14 HH**

Applicant **Pfannenberg GmbH**
Werner-Witt-Straße 1
21035 Hamburg, GERMANY

Product Description **Fire alarm devices - sounders**

Product Name **Patrol sounder PA1, PA X 1-05, PA5 , PA X 5-05, PA X 5-10, PA10, PA X 10-10, PA X 10-15, PA20, PA X 20-10, PA X 20-15**

Trade Name **Patrol sounder**

Specified Standards **EN 54-3 (2001) / A1 (2002) / A2 (2006), IEC 60092-504 (2001) + Corr. 1 (2011), IEC 60533 (1999)**

Related Directive **2012/32/EU**

Equipment Section **Fire protection**

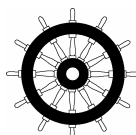
Annex A.1 Item No. **A.1/3.53**

Date of Re-issue **2014-11-28**

Expiry Date **2019-09-07**

Germanischer Lloyd

Notified Body No.: 0098



Christine Mydlak-Röder

Schedule of Approval

Approval Documentation

Test reports VdS no.: BMA 12071 (15.08.12), BMA 12073 (16.08.12), BMA 12074 (08.11.12), 12086 (19.09.12), 110068-AU03+UCE01 (24.02.12), 110068-AU03+UCE02 (24.02.12);
Test reports TÜV Nord no.: 11/11030-3-2 (28.04.2011), 11/11030-7-3 (17.11.2011), 12/12039-1-2 (24.02.2012), 12/12039-1-3 (23.02.12), 12/12039-1-4 (23.02.12), 11/11030-4-1 (28.06.2011), 11/11030-7-2 (17.11.2011), 11/11030-6-1 (14.10.2011), 11/11030-6-1 ship (14.10.2011), 11/11030-4-2 (28.06.2011), 11/11030-6-2 (14.10.2011), 11/11030-6-2 Ship (14.10.2011), 13-13141-2-1 (02.08.2013), 13/13141-2-2 (02.08.2013), 12/12013-2-1 (20.01.12), 12/12013-2-2 (20.01.12), 12/12039-2-3 (20.01.2012),
Test report Paconsult no.: 11-4046 (08.02.2012),
Test report VDE no.: 1210200-9010-0001/174391 (24.10.2012),
Test report EMV-Service no.: 01-1007-14 (22.06.11),
Test reports Pfannenbergl no.: GL_Power Fail_Variation_PA 5 DC (14.08.2013),
GL_Power Fail_Variation_PA20 AC (13.08.2013), GL_Power Fail_Variation_PA20 DC (13.08.2013),
GL_Power Fail_Variation_PA X 5-10 DC strobe portion (14.08.13),
GL_Power Fail_Variation_PA X 20-15 AC strobe portion (14.08.13)

Technical Data

The alarm device family „PATROL“ consists of acoustical components in different performance classes.

PATROL: Item number **233 aa bb c ddd** / Technical Data

aa	Type
10	PA 1: sounder (100dB)
11	PA X 1-05: sounder beacon combined device (100dB / 5J)
50	PA 5: sounder (105dB)
51	PA X 5-05: sounder beacon combined device (105dB / 5J)
52	PA X 5-10: sounder beacon combined device (105dB / 10J)
60	PA 10: sounder (110dB)
61	PA X 10-10: sounder beacon combined device (110dB / 10J)
62	PA X 10-15: sounder beacon combined device (110dB / 15J)
70	PA 20: sounder (120dB)
71	PA X 20-10: sounder beacon combined device (120dB / 10J)
72	PA X 20-15: sounder beacon combined device (120dB / 15J)
bb	rated voltage
10	PA X 10 + PA X 20: 230V AC
15	PA X 10 + PA X 20: 115V AC
63	PA 1 + PA 5: 24V – 48V DC, PA 10 + PA 20: 24V DC – 48V DC
64	PA 10 + PA 20: 110V – 240V AC
70	PA X 1 + PA X 5 + PA X 10 + PA X 20: 48V DC
80	Option –SSM ; PA X 1 + PA X 5 + PA X 10 + PA X 20: 24V DC

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c	signal color
0	none
1	clear
2	White
3	Yellow
4	orange
5	red
6	Green
7	blue

ddd	design GL
001	housing RAL3000 (red), standard
038	special tones
056	housing RAL 7035 (grey)
057	option -SSM, housing RAL 7035 (grey)
058	option -SSM
059	option -SSM, housing RAL 9003 (white)
060	Housing RAL 9003 (white)

Product documentation:

Operating and installation instructions, drawings, circuit diagrams, software documentation according to document "Dokumentenübersicht version 24.10.2013".

Codes of part no. / GL certified products (Rev. 4 / 02.10.2014)

Software name 30300P0-SWA-V-b (version 1.4); Test report VdS no. 110068-AU01+SW01 for the devices PA 1, PA 5, PA 10, PA 20 and PA X 1-05.

Remarks

None

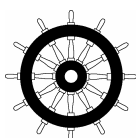
Limitations on the acceptance or use of the product

None

Notes:

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform Germanischer Lloyd, as the Notified Body, of any modifications or changes to the approved equipment.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel 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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body.