

# Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **30 457 - 83 HH**

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

Product Description **Electronic, Acoustical Alarm Sounder with Hooting and Siren Tone**

Type **DS 5, DS 10  
Options: -MX, -TAS, -TAV, -3G/3D**

Environmental Category **C, H, EMC1**

Technical Data /  
Range of Application **Power supply: 12V DC, 24V DC, 48V DC,  
115V AC, 230V AC available  
Sound level at 1m distance: DS 5: 105 dB(A)  
DS 10: 110 dB(A), 12V DC: 106 dB(A)  
Signals: 31 different warning and emergency signals  
Duty cycle: 100 %  
Material of housing: GD-Al Si12 Cu  
Degree of protection: IP 67  
Software version: 30007-200 SW-P, dtd. 12.11.2002**

Option -MX (24V DC): Soft Start Module and resistor for line monitoring  
Option -TAS, -TAV: Extern tone selection stage 2,3 and 4  
Option -3G/3D: Sounders for use in an explosion-hazard environment

Environmental Category "H": Cold Test at -25°C / 2h

Test Standard **Guidelines for the Performance of Type Tests, Chapter 2, Edition 2003**

Documents **Test report no.: EMV-Services 03/3006-1 (08.01.03), 03/3006-3 (03.09.03), paconsult  
243-03 (16.09.03); Pfannenberg P20043AC (11.09.03); NEMKO 10360 (12.05.03);  
Instruction for operating and installing 085 501 821f / 30007-008-1f;  
Software questionnaire according to requirement class 2 dated 2003-08-09**

Remarks **None**

Valid until **2017-08-07**

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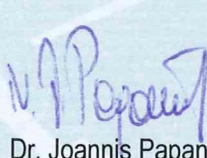
File No. **I.A.06**

Hamburg, **2012-07-11**

Type Approval Symbol



**Germanischer Lloyd**

  
Dr. Joannis Papanuskas

  
Klaus-Peter Schröder

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".