



DECLARATION OF PERFORMANCE

according to

- Construction Products Regulation 305/2011/ EC

No.: 01CPR2013-06-18

1. Product: **Sounder**
2. Type: **DS10**
3. Intended for use in accordance with the applicable harmonised technical specification in:

Fire detection and fire alarm systems in and around buildings

4. Manufacturer:

Pfannenberg GmbH
Werner-Witt-Str. 1
21035 Hamburg - Germany
Tel. +49 40 73412-0
Fax: +49 40 73412-345
Email: info@pfannenberg.com

5. Name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2) :

Nils-Peter Halm
Werner-Witt-Str. 1
21035 Hamburg - Germany
Tel. +49 40 73412-219
Fax: +49 40 73412-102
Email: nils.halm@pfannenberg.com

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

System 1

7. Notified Certification Body: VdS, 0786
EC-Certificate of Conformity: 0786-CPD-20005

8. Declared performance:

Essential characteristics	Performance	Harmonized technical specification
Operational reliability: <ul style="list-style-type: none">- Duration of operation- Provision for external conductors- Flammability of materials	<ul style="list-style-type: none">- $\Delta(LpA) < 6dB$- Space in enclosure, entry holes for M20 cable glands and conductor clamping provided- Aluminium	EN 54-3:2013
<ul style="list-style-type: none">- Enclosure protection- Access- Manufacturer's adjustment- On-site adjustment of behaviour	<ul style="list-style-type: none">- IP66/IP67, $\Delta(LpA) < 6dB$, no water and no dust ingress- Means are provided to limit access- Special means required- Special means required, settings clearly marked at manual	



0786



<ul style="list-style-type: none"> - Software controlled sounders 	<ul style="list-style-type: none"> - Documentation available, modular structured, invalid data not permitted, program deadlock avoided. site specific data in non-volatile memory with more than two-week retention 																	
<p>Performance parameters under fire condition:</p> <ul style="list-style-type: none"> - Sound pressure level <ul style="list-style-type: none"> - Frequencies and sound patterns 	<p>Minimal values – according to standard</p> <table border="1" data-bbox="560 501 1059 618"> <thead> <tr> <th>Tone</th> <th>1</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>$L_{pA} \geq XX \text{ dB(A)}$</td> <td></td> <td></td> <td></td> </tr> <tr> <td>$L_{pA} \geq XX \text{ dB(A)}$ at all measured angles</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DS10</td> <td>111 104</td> <td>112 103</td> <td>111 97</td> </tr> </tbody> </table> <p>Tone 1 sweeping tone 1200Hz-500Hz Tone 3 alternating tone 800Hz/1025Hz Tone 4 continuous tone 950Hz</p> <p>Correct as declared by the manufacturer</p>	Tone	1	3	4	$L_{pA} \geq XX \text{ dB(A)}$				$L_{pA} \geq XX \text{ dB(A)}$ at all measured angles				DS10	111 104	112 103	111 97	
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DS10	111 104	112 103	111 97															
<p>Durability of performance parameters under fire conditions:</p> <ul style="list-style-type: none"> - Temperature resistance: <ul style="list-style-type: none"> Dry heat (operational) Dry heat (endurance) Cold (operational) - Humidity resistance: <ul style="list-style-type: none"> Damp heat, cyclic (operational) Damp heat, steady state (endurance) Damp heat, cyclic (endurance) 	<p>No false operations, $\Delta(L_{pA}) \leq 6\text{dB}$</p> <p>$\Delta(L_{pA}) \leq 6\text{dB}$ No false operations, $\Delta(L_{pA}) \leq 6\text{dB}$</p> <p>No false operations, $\Delta(L_{pA}) \leq 6\text{dB}$</p> <p>$\Delta(L_{pA}) \leq 6\text{dB}$</p> <p>$\Delta(L_{pA}) \leq 6\text{dB}$</p>																	
<ul style="list-style-type: none"> - Shock and vibration resistance: <ul style="list-style-type: none"> Shock (operational) Impact (operational) Vibration (operational) Vibration (endurance) - Corrosion resistance: <ul style="list-style-type: none"> SO2 corrosion (endurance) - Electrical stability: <ul style="list-style-type: none"> EMC, immunity (operational) 	<p>$\Delta(L_{pA}) \leq 6\text{dB}$ No false operations, $\Delta(L_{pA}) \leq 6\text{dB}$</p> <p>No false operations, $\Delta(L_{pA}) \leq 6\text{dB}$</p> <p>$\Delta(L_{pA}) \leq 6\text{dB}$</p> <p>$\Delta(L_{pA}) \leq 6\text{dB}$</p> <p>no false operations, $\Delta(L_{pA}) \leq 6\text{dB}$</p>																	

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.

Signed for and on behalf of the manufacturer by:

Nils P. Halm

Hamburg, June 2013

Nils Halm

Rev.Nr.00

Technical Director