

Certificate of Constancy of performance

0051 – CPR – 1316

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Sounders and visual alarm device

Model: **ESB1020, ESB1050, ES1020, ES1050, ES2020xE, ES2050xE**

Trademark: **INIM**

Other information: see **ANNEX**

Produced by:

**INIM ELECTRONICS SRL
VIA DEI LAVORATORI 10 - FRAZ. CENTOBUCHI
63076 MONTEPRANDONE AP**

In the manufacturing plant(s):

PI.H000OJ

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard(s)

EN 54-3:2001 + A1:2002 + A2:2006

EN 54-17 :2005

EN 54-23 :2010

under system **1** are applied and that

the product fulfills all the prescribed requirements set out above.

This certificate was first issued on 2018-03-23 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonized standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly


IMQ S.p.A.
CPR Technical Director
(Ing. V. Baggio)

Milano, 2018-03-23

This certificate was issued by IMQ S.p.A., a notified body according to Regulation 305/2011/EU.
IMQ S.p.A. Identification Number is: 0051.

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Destination of use: Type A (for internal use)

Ceiling sounder:

Model ESB1020	Addressable base sounder beacon with short-circuit isolators
Model ESB1050	Addressable base sounder beacon with voice function and short-circuit isolators
Model ES1020	Addressable ceiling sounder beacon with short-circuit isolators
Model ES1050	Addressable ceiling sounder beacon with voice function and short-circuit isolators

Wall sounder:

Model ES2020xE	Addressable wall sounder beacon with short-circuit isolators.
Model ES2050xE	Addressable wall sounder beacon with voice function and short-circuit isolators

Tone patterns in compliance with EN 54-3:

Tone 1: ISO 8201 2800Hz	2800Hz, (0.5sec ON / 0.5sec OFF) x3 / 1sec OFF
Tone 2: ISO 8201 1000Hz	1000Hz, (0.5sec ON / 0.5sec OFF) x3 / 1sec OFF
Tone 4: NEN2575 2000	(500Hz ÷ 1200Hz) x 3.5sec / 0.5sec OFF
Tone 7: Fast whoop (AS1670)	(500Hz ÷ 1200Hz) x 0.5sec / 0.5sec OFF
Tone 11: AFNOR NF S 332 001	550Hz, 0.1sec / 440Hz, 0.4sec
Tone 12: AS 1670 Alert	420Hz, 0.625sec ON / 0.625sec OFF
Tone 13: AS 1670 Evacuation	(500Hz ÷ 1200Hz) x 0.5sec / 0.5sec OFF) x3 / 1.5sec OFF
Tone 14: DIN 33 040	(1200Hz ÷ 500Hz) x 1sec

Coverage characteristics for:

ESB1020 ; ES1020 ; ESB1050 ; ES1050

C-3-10	O-4-10	High level configuration
C-3-9	O-3.5-9	Low level configuration

ES2020xE; ES2050xE

W-3.5-10.2	O-3.5-10.5-10.0	High level configuration
W-2.8-7	O-2.8-7.5-7	Low level configuration

Hardware identification: STM8L151
Software version: 1.00

List of optional function with requirements:

Synchronization of message according to paragraph C 5.3 of EN 54-3

Synchronization according to paragraph 4.3.7 of EN 54-23

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Message in compliance with EN 54-3

Models ESB 1050 , ES 1050 and ES 2050xE

N°	Language	Type
1	Italian	Pre alarm
2		Alarm
3	English	Pre alarm
4		Alarm
5	French	Pre alarm
6		Alarm
7	Spanish	Pre alarm
8		Alarm
9	Portuguese	Pre alarm
10		Alarm
11	Greek	Pre alarm
12		Alarm
13	Arabic	Pre alarm
14		Alarm
15	Dutch	Pre alarm
16		Alarm

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Attention-drawing signal and message broadcast sequences in compliance with a EN 54-3

Ceiling Sounders ESB 1050 and ES 1050

N°	PRE-ALARM / ALARM	Description
17	PRE IT	AS 1670 Alert + Message 1
18	ALM IT	ISO 8201 1000Hz + Message 2
19	PRE EN	AS 1670 Alert + Message 3
21	PRE FR	AS 1670 Alert + Message 5
22	ALM FR	ISO 8201 1000Hz + Message 6
23	PRE SP	AS 1670 Alert + Message 7
24	ALM SP	ISO 8201 1000Hz + Message 8
25	PRE PT	AS 1670 Alert + Message 9
26	ALM PT	ISO 8201 1000Hz + Message 10
27	PRE GR	AS 1670 Alert + Message 11
29	PRE AR	AS 1670 Alert + Message 13
31	PRE NL	AS 1670 Alert + Message 15
37	PRE IT	ISO 8201 1000Hz + Message 1
38	ALM IT	ISO 8201 1000Hz + Message 2
41	PRE FR	ISO 8201 1000Hz + Message 5
42	ALM FR	ISO 8201 1000Hz + Message 6
44	ALM SP	ISO 8201 1000Hz + Message 8
45	PRE PT	ISO 8201 1000Hz + Message 9
46	ALM PT	ISO 8201 1000Hz + Message 10
51	PRE NL	ISO 8201 1000Hz + Message 15
52	ALM NL	ISO 8201 1000Hz + Message 16
58	PRE IT	AS 1670 Alert + Message 1
59	ALM IT	AS 1670 Alert + Message 2
60	PRE EN	AS 1670 Alert + Message 3
61	ALM EN	AS 1670 Alert + Message 4
62	PRE FR	AS 1670 Alert + Message 5
63	ALM FR	AS 1670 Alert + Message 6
64	PRE SP	AS 1670 Alert + Message 7
65	ALM SP	AS 1670 Alert + Message 8
66	PRE PT	AS 1670 Alert + Message 9
67	ALM PT	AS 1670 Alert + Message 10
68	PRE GR	AS 1670 Alert + Message 11
69	ALM GR	AS 1670 Alert + Message 12
70	PRE AR	AS 1670 Alert + Message 13
71	ALM AR	AS 1670 Alert + Message 14
72	PRE NL	AS 1670 Alert + Message 15
73	ALM NL	AS 1670 Alert + Message 16
79	PRE IE	AS 1670 Alert + Message 1 + Message 3
81	PRE IEFS	AS 1670 Alert + Message 1 + Mess. 3 + Mess. 5 + Mess. 7
83	PRE IEFSP	AS 1670 Alert + Mess. 1 + Mess. 3 + Mess. 5 + Mess. 7 + Mess. 9
85	PRE EF	AS 1670 Alert + Message 3 + Message 5
87	PRE EFSP	AS 1670 Alert + Message 3 + Message 5 + Message 7 + Message 9
89	PRE SP	AS 1670 Alert + Message 7 + Message 9
90	ALM SP	ISO 8201 1000Hz + Message 8 + Message 10
91	PRE EG	AS 1670 Alert + Message 3 + Message 11
73	ALM NL	AS 1670 Alert + Message 16
79	PRE IE	AS 1670 Alert + Message 1 + Message 3
93	PRE EFG	AS 1670 Alert + Message 3 + Message 5 + Message 11
95	PRE EFSPG	AS 1670 Alert + Mess. 3 + Mess. 5 + Mess. 7 + Mess. 9 + Mess. 11
97	PRE EA	AS 1670 Alert + Message 3 + Message 13
99	PRE EFA	AS 1670 Alert + Message 3 + Message 5 + Message 13
101	PRE FN	AS 1670 Alert + Message 5 + Message 15

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Attention-drawing signal and message broadcast sequences in compliance with a EN 54-3

Wall Sounder ES 2050xE

N°	PRE-ALARM / ALARM	Description
18	ALM IT	ISO 8201 1000Hz + Message 2
20	ALM EN	ISO 8201 1000Hz + Message 4
21	PRE FR	AS 1670 Alert + Message 5
22	ALM FR	ISO 8201 1000Hz + Message 6
24	ALM SP	ISO 8201 1000Hz + Message 8
26	ALM PT	ISO 8201 1000Hz + Message 10
28	ALM GR	ISO 8201 1000Hz + Message 12
30	ALM AR	ISO 8201 1000Hz + Message 14
37	PRE IT	ISO 8201 1000Hz + Message 1
38	ALM IT	ISO 8201 1000Hz + Message 2
39	PRE EN	ISO 8201 1000Hz + Message 3
40	ALM EN	ISO 8201 1000Hz + Message 4
41	PRE FR	ISO 8201 1000Hz + Message 5
42	ALM FR	ISO 8201 1000Hz + Message 6
43	PRE SP	ISO 8201 1000Hz + Message 7
44	ALM SP	ISO 8201 1000Hz + Message 8
45	PRE PT	ISO 8201 1000Hz + Message 9
46	ALM PT	ISO 8201 1000Hz + Message 10
47	PRE GR	ISO 8201 1000Hz + Message 11
48	ALM GR	ISO 8201 1000Hz + Message 12
49	PRE AR	ISO 8201 1000Hz + Message 13
50	ALM AR	ISO 8201 1000Hz + Message 14
51	PRE NL	ISO 8201 1000Hz + Message 15
52	ALM NL	ISO 8201 1000Hz + Message 16
62	PRE FR	AS 1670 Alert + Message 5
63	ALM FR	AS 1670 Alert + Message 6
73	ALM NL	AS 1670 Alert + Message 16
80	ALM IE	ISO 8201 1000Hz + Message 2 + Message 4
82	ALM IEFS	ISO 8201 1000Hz + Message 2 + Message 4 + Mess. 6 + Mess. 8
86	ALM EF	ISO 8201 1000Hz + Message 4 + Message 6
88	ALM EFSP	ISO 8201 1000Hz + Message 4 + Mess. 6 + Mess. 8 + Mess. 10
90	ALM SP	ISO 8201 1000Hz + Message 8 + Message 10
92	ALM EG	ISO 8201 1000Hz + Message 4 + Message 12
94	ALM EFG	ISO 8201 1000Hz + Message 4 + Message 6 + Mes
96	ALM EFSPG	ISO 8201 1000Hz + Mess. 4 + Mes. 6 + mes. 8 + mes. 10 + mes. 12
98	ALM EA	ISO 8201 1000Hz + Message 4 + Message 14
100	ALM EFA	ISO 8201 1000Hz + Message 4 + Message 6 + Message 14