MAGPRO-DBS1

Intelligent analogue addressable fire alarm base with built-in sounder
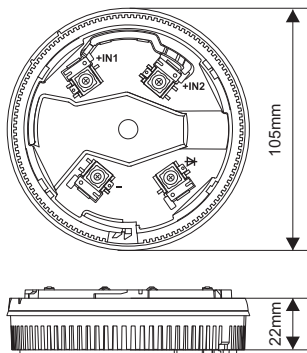
! Dimensions

105mm

22mm

+IN1 +IN2

Important Notes!

! Attention!

MAGPRO-DBS1 must be connected only to MAGPRO Series fire panels with following software versions:
MAGPRO16 ver.6.6.2 and higher;
MAGPRO96 ver.4.5.2 and higher;
MAGPRO9601 ver.1.1.3 and higher!

! Product Compatibility!

MAGPRO-DBS1 sounder is compatible for mounting on the following bases:
1. MAGPRO-DB - Standard low profile base for addressable detectors and sounders.
2. MAGPRO-DB23R - Standard base with built-in red LED flash beacons.
3. MAGPRO-DB23W - Standard base with built-in white LED flash beacons.
For all new installations including MAGPRO-DBS1 sounders you must provide also the same quantity of compatible base types according the system configuration.
The standard bases MAGPRO-DB, MAGPRO-DB23R and MAGPRO-DB23W must be purchased separately!

* The base MAGPRO-DB23R/W is specially designed for use with MAGPRO-DBS1 sounders, as expands their application in fire alarm installations providing additional lighting indication in case of fire alarm events.

General Description

MAGPRO-DBS1 is an addressable sounder with base, compatible for mounting on all models standard bases for MAGPRO devices. The sounder is designed for installing in addressable fire alarm systems which support operation via MAGPRO communication protocol. The device is powered on from the panel and can be controlled via the communication protocol.
MAGPRO-DBS1 supports 32 different tone types at two sound levels. The tone type and sound level are programmed from the control panel.
The MAGPRO-DBS1 is compatible for operation with MAGPRO addressable detectors series: MAGPRO-SD1, MAGPRO-HD1 & MAGPRO-HSD1

Installation Instruction

Attention: Power off the loop circuit before installing the MAGPRO-DBS1 addressable sounder!

1. Choose the proper place for installation of the device.

2. Set the device address using MAGPRO-PROG or directly from addressable fire panel. The address must be in the range from 1 to 250.

3. Mount the standard base (MAGPRO-DB or MAGPRO-DB23R/W), choosing the type according the requirement of the installation. If you want to "lock" the sounder to the standard base, remove the little "tooth" on the top of the locking mechanism of the base.

4. Connect the standard base to the fire panel using the wiring diagrams.

5. Insert the MAGPRO-DBS1 sounder into the standard base and rotate it clockwise until it drops into place - the short mark on the standard base fits with the long mark on the sounder body. Continue to rotate the sounder until the short and the long marks coincides with those on the base - a click is heard.

6. Insert a detector - MAGPRO-SD1, MAGPRO-HD1 or MAGPRO-HSD1 - into the sounder base and rotate clockwise until it drops into place - the short mark on the sounder fits with that on the detector.
Continue to rotate the detector until its mark coincides with the long mark on the sounder - a click is heard. If you want to "lock" the detector to the sounder before installation, remove the little "tooth" on the top of the locking mechanism of the sounder. Note: The mounted detector on the MAGPRO-DBS1 sounder is assigned at different address to the control panel!

7. Program the sounder parameters. Refer to the programming manual of the MAGPRO series of control panels for more details.
When the sounder is mounted on MAGPRO-DB base, it is recognized from the panel as "MAGPRO-DBS1".
When the sounder in mounted on MAGPRO-DB23R or MAGPRO-DB23W base(s), it is recognized from the panel as "DBS1 / VAD".

8. Test the sounder for proper operation.

9. If the sounder has been locked to the base, to remove it for a service schedule maintenance and cleaning, you have to use the special tool available in all MAGPRO standard bases. Light press with the tool into the base opening and at the same time rotate the sounder body counter-clockwise.
The same way is used for unlocking a detector from the MAGPRO-DBS1 addressable sounder.

Operating Voltage Range	16 - 32VDC
Maximal consumption at communication	470 µA @ 27VDC
Maximal consumption:	
- main tone type 27, low volume level	3 mA @ 27VDC
- main tone type 27, high volume level	10 mA @ 27VDC
Power volume (main tone type 27):	
- low volume	~ 81dB (A) ± 3dB @ 1m
- high volume	~ 88dB (A) ± 3dB @ 1m
Power volume (other tone types):	
- low volume	~ 81dB (A) ± 3dB @ 1m
- high volume	~ 87dB (A) ± 3dB @ 1m
Number of tone types	32
Supported communication protocol	MAGPRO
Relative humidity resistance	(93 ± 3)% @ +40°C
Color	White
Material	ABS
Dimensions	105 x 22 mm
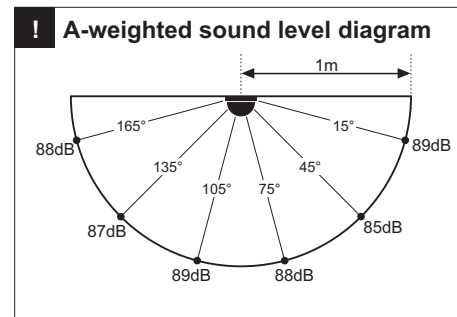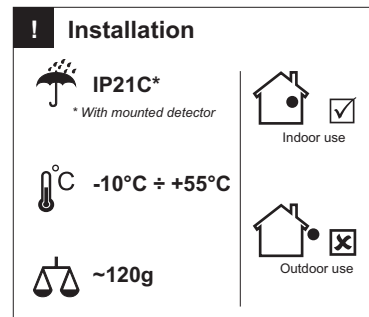
! Installation

IP21C*
* With mounted detector

-10°C ÷ +55°C

~120g

Indoor use ☑

Outdoor use ☒

! A-weighted sound level diagram

1m
88dB — 165°
89dB — 15°
135°
45°
105° 75°
87dB
85dB
89dB
88dB

1 Standard Bases - Locking & Unlocking

MAGPRO-DB

🔒 Locking the sounder to the base

Unlocking the sounder from the base

ø103x11mm

122x137x27mm
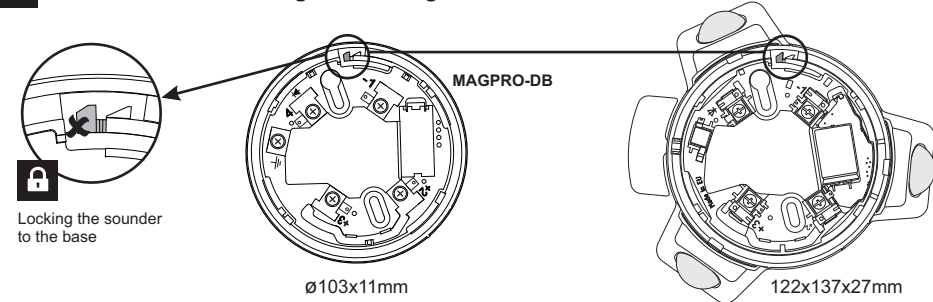
2 Standard Bases - Mounting

Use suitable screws according the type of the mounting surface

MAGPRO-DB

Mounting marks

MAGPRO-DB23R
MAGPRO-DB23W

3 Address Programming

Note: You may also program the address directly from the fire panel.
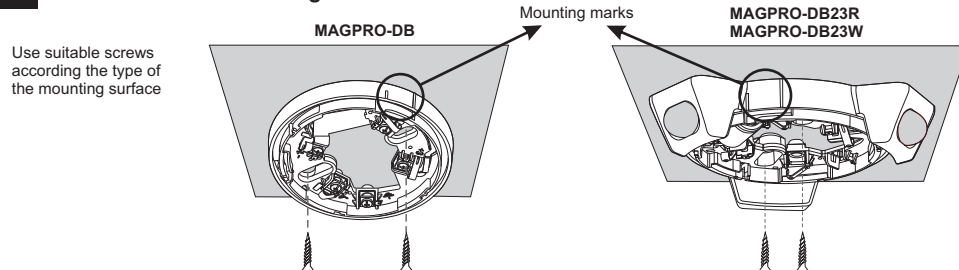
Programmer MAGPRO
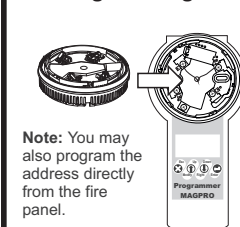
4 Connection Diagram

⚠ Attention: DO NOT CONNECT the Earth terminal (⏚) of MAGPRO-DB base to the loop line!

+Loop

MAGPRO-DB
MAGPRO-DB23R
MAGPRO-DB23W

+2   +3
-1   (RI)
▽ RI

+2   +3
-1   (RI)
▽ RI
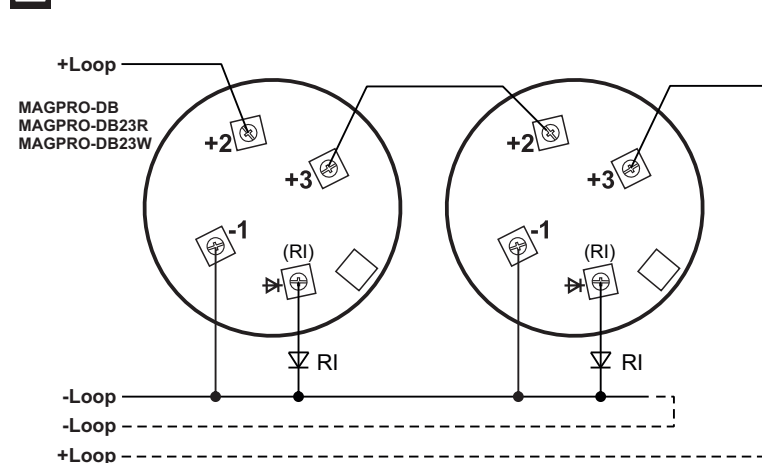
-Loop
-Loop
+Loop

Legend

RI - Remote Indicator
+Loop - Positive loop wire
-Loop - Negative loop wire

5 Installation

① ② ③ ④ ⑤

At the end of installation, the long marks of the standard base and MAGPRO-DBS1 sounder must coincide with the single mark of the mounted detector.
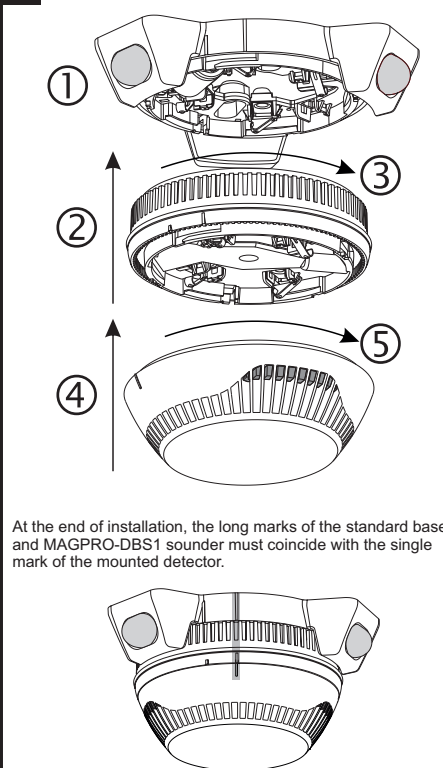
🔔 Tone types and description

Tone	Tone Type	Tone Description / Application
1		970Hz
2		800Hz/970Hz @ 2Hz
3		800Hz - 970Hz @ 1Hz
4		970Hz 1s OFF/1s ON
5		970Hz, 0.5s/ 630Hz, 0.5s
6		554Hz, 0.1s/ 440Hz, 0.4s (AFNOR NF S 32 001)
7		500 - 1200Hz, 3.5s/ 0.5s OFF (NEN 2575:2000)
8		420Hz 0.625s ON/0.625s OFF (Australia AS1670 Alert tone)
9		500 - 1200Hz, 0.5s/ 0.5s OFF x 3/1.5s OFF (AS1670 Evacuation)
10		550Hz/440Hz @ 0.5Hz
11		970Hz, 0.5s ON/0.5s OFF x 3/ 1.5s OFF (ISO 8201)
12		2850Hz, 0.5s ON/0.5s OFF x 3/1.5s OFF (ISO 8201)
13		1200Hz - 500Hz @ 1Hz (DIN 33 404)
14		400Hz
15		550Hz, 0.7s/1000Hz, 0.33s
16		1500Hz - 2700Hz @ 3Hz
17		750Hz
18		2400Hz
19		660Hz
20		660Hz 1.8s ON/1.8s OFF
21		660Hz 0.15s ON/0.15s OFF
22		510Hz, 0.25s/ 610Hz, 0.25s
23		800/1000Hz 0.5s each (1Hz)
24		250Hz - 1200Hz @ 12Hz
25		500Hz - 1200Hz @ 0.33Hz
26		2400Hz - 2900Hz @ 9Hz
27		**2400Hz - 2900Hz @ 3Hz** (**2500Hz** - main sound frequency)
28		800Hz - 970Hz @ 100Hz
29		800Hz - 970Hz @ 9Hz
30		800Hz - 970Hz @ 3Hz
31		800Hz, 0.25s ON/1s OFF
32		600Hz – 1100Hz, 2.6s/0.4s OFF