# esp

## MAGPRO-DBSS

*Intelligent analogue addressable fire alarm base with built-in sounder and strobe MAGPRO-DBSS*

CE 1293

1293-CPR-0388
EN54-3, Sounder Type A
2013

**Distributor:** Elite Security Products Ltd,
Unit 7 Target Park, Shawbank Road
Lakeside, Redditch B98 8YN, UK
http://www.espuk.com

**Manufacturer:** Teletek Electronics JSC
Address: 14A Srebarna Str, 1407 Sofia,
Bulgaria
Http://www.teletek-electronics.com

### ! Installation

| | | |
|---|---|---|
| ☔ **IP21C** | | ☑ Indoor use |
| 🌡°C **-10°C ÷ +60°C** | | |
| ⚖ **~127g** | | ☒ Outdoor use |

18020178; RevC; 03/2016

## Installation Instruction

MAGPRO-DBSS is an addressable Fire Base with built-in Sounder and Strobe in its body. The fire base 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.
The addressable MAGPRO-DBSS fire base supports 32 different tone types at two sound levels. The tone type and sound level are programmed from the control panel.
The MAGPRO-DBSS is compatible for operation with MAGPRO addressable detectors series: HD1, SD1 and HSD1. The device is designed for easy installation and consists from two parts: mounting plane basis and sounder is a body with factory mounted fire base.
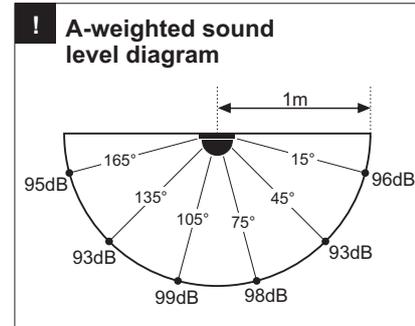
## Installation Instructions
**Attention: Power off the loop circuit before installing the MAGPRO-DBSS addressable fire base!**

**1. Choose the proper place for installation of the device**.
**2. Set the device address** using MAGPRO-PROG. The address must be in the range from 1 to 250.
**3. Fix the mounting plane basis** on the ceiling of the protected premises using fixings according the mounting surface.
**4. Run the loop wires and fix the sounder** body to the mounting basis using the supplied screws in the spare parts kit.
**5. Connect the fire base** to the fire panel using the wiring diagram.
**6. Insert a detector - MAGPRO HD1/ SD1/ HSD1\* - into the fire base** and rotate clockwise until it drops into place - the short mark on the base fits with that on the sounder body. Continue to rotate the detector until its mark coincides with the long mark on the base - a click is heard. In case you will use MAGPRO-DBSS only as a fire sounder, you can close it with cover cap MAGPRO-DBSC.
*\*Note: The mounted detector on the MAGPRO-DBSS base is assigned at different address to the control panel!*
**7. Program the sounder parameters.** Refer to the Programming manual of the control panels MAGPRO16 and MAGPRO96 for more details.
**8. Test the sounder for proper operation.**

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Operating Voltage Range | 15 - 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 (up to 100 pcs MAGPRO DBSS to the loop) | ~ 88dB (A) ± 3dB @ 1m |
|   - high volume (up to 30 pcs MAGPRO DBSS to the loop) | ~ 96dB (A) ± 3dB @ 1m |
| Power volume (other tone types): | |
|   - low volume (up to 100 pcs MAGPRO DBSS to the loop) | 82-92dB ± 3dB @ 1m |
|   - high volume (up to 30 pcs MAGPRO DBSS to the loop) | 90-100dB ± 3dB @ 1m |
| Frequency of the strobe flashing | 1Hz |
| Number of tone types | 32 |
| Supported communication protocol | MAGPRO |
| Wire Gauge for terminals | 0,4 - 2.0mm$^2$ |
| Relative humidity resistance | (93 ± 3)% @ +40°C |
| Color | White |
| Material | SAN, transparent |
| Dimensions with mounted detector MAGPRO HD1/ SD1 | 102 x 63mm |
| Dimensions with mounted detector MAGPRO HSD1 | 102 x 70mm |

### ! A-weighted sound level diagram



1m

| | |
|---|---|
| 165° | 15° |
| 135° | 45° |
| 105° | 75° |

95dB — 96dB
93dB — 93dB
99dB — 98dB

**ATTENTION: Read carefully this installation Instructions before installing the device!
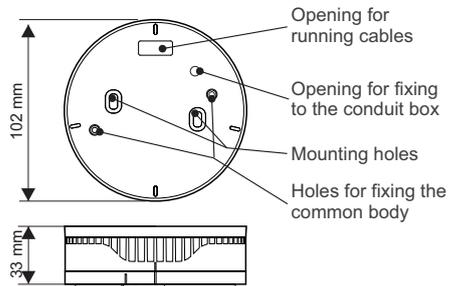This manual is subject to change without notice!**

# 1 Dimentions and Mounting



- Opening for running cables
- Opening for fixing to the conduit box
- Mounting holes
- Holes for fixing the common body

102 mm

33 mm

# 2 Address programming

- Use the cable with 5-pin terminal.



MAGPRO-PROG

# ⚠ Wiring Diagrams



+Loop

DBSS

DBSS

Fire Panel

-Loop

⏚ Earth

-Loop

+Loop

RI

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

# 3 Installation



① ② ③ ④ ⑤

Optional cover MAGPRO-DBSC, instead a detector.
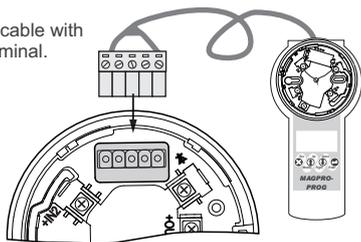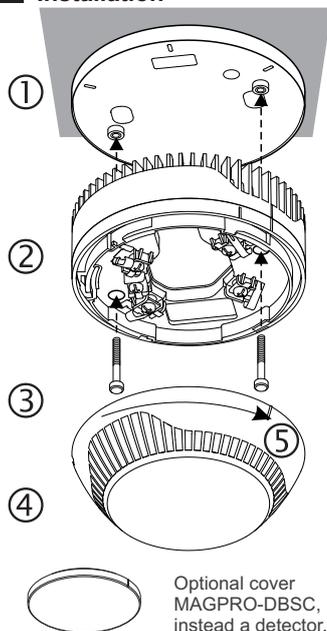
# 🔔 Tone types and description

| Tone | Tone Type | Tone Description |
|------|-----------|------------------|
| 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 | | 500Hz - 1200Hz, 3.75s/0.25s OFF (AS2220) |