

## TFS-1182R / TFS-1182W

### Intelligent Addressable Fire Alarm Sounder & Flasher With Built-in Isolator Installation Manual



Release Date: 05/01/2021  
Rev:01

#### Warnings

##### General

- ✓ Read this manual carefully before operating the device and retain it for future reference
- ✓ Pay attention to all warnings and precautions described in the manual.
- ✓ Keep devices away from water and moisture utunuz.

#### Service

Do not attempt to repair the device by yourself, you may be exposed to electric shock if you open the device cover.

In the event of any malfunction, contact your dealer or authorized service. Technical intervention to the device must be performed by qualified service personnel.

**Attention: Do not attempt to remove the card from its plastic housing. Completely closed for your safety. Users must avoid Intervention.**

#### Fault Conditions Requiring Service

In the event of any malfunction or in the following cases, contact your authorized service or dealer.

- ✓ When the power cord or plug is damaged,
- ✓ When any liquid flows into the device or the object falls,
- ✓ When exposed to water and rain,
- ✓ If the device has been dropped or the housing has been damaged
- ✓ If the device has noticeable performance changes,
- ✓ If the device does not operate normally according to the operating instructions specified

Call for service as incorrect operations can cause other malfunctions.

#### Maintenance on your own

Do not try to fix the device on your own. Removal of cover may end up with electricity shock. In case of any defect or malfunction, contact with your dealer or with authorized service. All the technical interventions have to be done by technicians of company. Device must be cleaned up with a dry fabric. No-chemicals are allowed for cleaning.

#### Transportation

Device must be carefully transported avoiding all physical bump, stroke and possible fluid entry. Malfunctions that caused by improper transportation is not under warranty.

#### Human and Environmental Health

This device contains no chemical or biological elements that could harm human condition.

#### Sub Models

|           |   |
|-----------|---|
| TFS-1182R | Intelligent Addressable Sounder & Flasher with Built-in Isolator, RED   |
| TFS-1182W | Intelligent Addressable Sounder & Flasher with Built-in Isolator, WHITE |

#### Technical Features

|                                  |   |
|----------------------------------|---|
| Power                            | 15VDC – 32VDC (Nom.27VDC)                           |
| Current Consumption              | ~90 $\mu$ A ( @27VDC )                              |
| Start Time                       | 15 sec.   |
| Alarm Consumption (Default Tone) | ~Min.=6.74mA, Nom.=11.06Ma, Max.=15.1mA.(27VDC )    |
| Sound Level                      | 89.4 / 94.3 / 97 dB $\pm$ 2 dB (@27VDC, at 1 meter) |
| Sound Tone                       | 42 Different Tone                                   |
| Flash Mode                       | 3 (Slow, Normal, Fast)                              |
| Protection Class                 | IP21C   |
| Operating Temperature Range      | -10°C ~ 55°C  |
| Humidity                         | Between %0 - %95 at +40°C                           |
| Dimention (mm)                   | $\varnothing$ :110mm, h:55mm (Include Base Bracket) |
| Body Material                    | Red – Transparent, UL94 Polycarbonate               |
| Cable Selection                  | 0.8mm <sup>2</sup> ~ 1.5mm <sup>2</sup>             |
| Weight (W – WO Base)             | 207.7Gr.  |
| Leds                             | Wide Range 7 Bright LED                             |
| Heart Led                        | 20s period - 1182R: RED, 1182W: White               |
| Piezo                            | Sealed Piezo  |
| Coverage                         | W-2,4-4   |
| Usage                            | Internal Usage / Siren Type : Type A                |

#### Isolator

|                          |                |
|--------------------------|----------------|
| Avarage Consumption @24V | 15uA           |
| Vmax.                    | 32V            |
| Vnom.                    | 28V            |
| Vmin.                    | 15V            |
| Vso_max.                 | 18V            |
| Vso_min.                 | 9V             |
| Vsc_max.                 | 5V             |
| Vsc_min.                 | 0,7V           |
| Ic_max.                  | 0,5A           |
| Is_max.                  | 3A             |
| IL_max.                  | 0,026A         |
| Zc_max.                  | 0,026 $\Omega$ |






















#### Indicator Lights









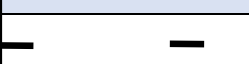

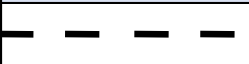
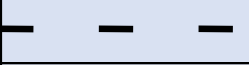

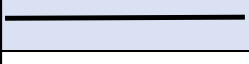






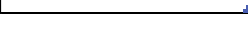
|   | White Led    | RED / White LEDs<br>(7 pcs) | Yellow LEDs  |
|---|--------------|-----------------------------|--------------|
| The device is in normal working condition (can be off through CP) | 20s Flashing | x                           | X            |
| Alarm Condition   | X            | Yes                         | X            |
| Shortcircuit  | X            | X                           | Constant Lit |

#### Terminals

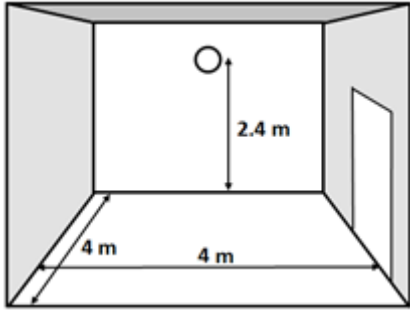
|     |                  |
|-----|------------------|
| 1 - | Loop (-) IN      |
| 2 - | Loop (-) OUT     |
| 3 - |                  |
| 4 - | Loop (+) IN, OUT |

**Supported Tones**

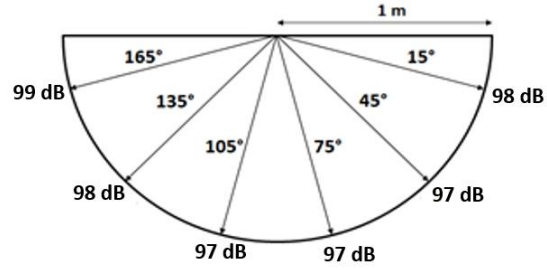
| Tone Modes       | Tone Type  | Tone Description   |
|------------------|--|--|
| TONE 1 (default) | Default tone 1754Hz ~ 2380Hz sinus signal<br>11 HZ 600 us                    |    |
| TONE 2           | Specific tone 1754Hz ~ 2380Hz sinus signal<br>5 HZ 1333 us                   |    |
| TONE 3           | Specific tone 1754Hz ~ 2380Hz sinus signal<br>1 HZ 6666 us                   |    |
| TONE 4           | Specific tone 500Hz ~ 1200Hz sinus signal<br>0.33 HZ 2594 us                 |    |
| TONE 5           | Specific tone 2400Hz ~ 2850Hz sawtooth signal<br>7 HZ 2197 us                |    |
| TONE 6           | Specific tone 2400Hz ~ 2850Hz sawtooth signal<br>1 HZ 15384 us               |    |
| TONE 7           | Specific tone 2400Hz ~ 2850Hz sawtooth signal<br>50 HZ 307 us                |    |
| TONE 8           | Specific tone 300Hz ~ 1200Hz sawtooth signal<br>1 HZ 400 us                  |    |
| TONE 9           | Specific tone 500Hz ~ 1200Hz sawtooths signal<br>1 HZ 856 us                 |    |
| TONE 10          | Specific tone 800Hz ~ 970Hz sawtooth signal<br>7 HZ 646 us                   |    |
| TONE 11          | Specific tone 800Hz ~ 970Hz sawtooth signal<br>1 HZ 4524 us                  |    |
| TONE12           | Specific tone 800Hz ~ 970Hz sawtooth signal<br>50 HZ 90 us                   |    |
| TONE 13          | Specific tone 800Hz ~ 970Hz sawtooth signal<br>2 HZ 2262 us                  |  |
| TONE14           | Specific tone 800Hz ~ 970Hz sawtooth signal<br>9 HZ 502 us                   |  |
| TONE 15          | Specific tone 800Hz ~ 970Hz sawtooth signal<br>100 HZ 45 us                  |  |
| TONE 16          | Specific tone 500Hz ~ 988Hz sawtooths-square signal<br>321 us 250000 us      |  |
| TONE 17          | Specific tone 500Hz ~ 1200Hz sawtooths-square signal<br>299 us 500000 us     |  |
| TONE 18          | Specific tone 500Hz ~ 1200Hz sawtooths-square signal<br>600 us 500000 us     |  |
| TONE 19          | Specific tone 1200Hz ~ 500Hz sawtooths-square signal<br>600 us 500000 us     |  |
| TONE 20          | Specific tone 2850Hz - 2400Hz square signal (ISO8201)<br>250000 us 250000 us |  |
| TONE 21          | Specific tone 1200Hz - 500Hz square signal<br>500000 us 500000 us            |  |

|         |   |   |
|---------|---|---|
| TONE 21 | Specific tone 1200Hz - 500Hz square signal<br>500000 us 500000 us         |    |
| TONE 22 | Specific tone 800Hz ~ 970Hz square signal<br>500000 us 500000 us          |    |
| TONE 23 | Specific tone 628Hz - 925Hz square signal<br>250000 us 250000 us          |    |
| TONE 24 | Specific tone 554Hz - 440 square signal<br>100000 us 400000 us            |    |
| TONE 25 | Specific tone 670Hz - 845Hz square signal<br>250000 us 350000 us          |    |
| TONE 26 | Specific tone 440Hz - 554Hz square signal (French)<br>100000 us 400000 us |    |
| TONE 27 | Specific tone 2850Hz - 0 square signal<br>500000 us 500000 us             |    |
| TONE 28 | Specific tone 970Hz - 0 square signal (ISO8201)<br>250000 us 250000 us    |    |
| TONE 29 | Specific tone 925Hz - 0 square signal<br>150000 us 600000 us              |    |
| TONE 30 | Specific tone 925Hz - 0 square signal<br>250000 us 1000000 us             |    |
| TONE 31 | Specific tone 800Hz - 0 square signal (ISO8201)<br>250000 us 1000000 us   |    |
| TONE 32 | Specific tone 660Hz - 0 square signal (Swedish)<br>150000 us 150000 us    |    |
| TONE 33 | Specific tone 660Hz - 0 square signal<br>6500000 us 13000000 us           |   |
| TONE 34 | Specific tone 554Hz - 0 square signal<br>100000 us 400000 us              |  |
| TONE 35 | Specific tone 400Hz continuous signal                                     |  |
| TONE 36 | Specific tone 628HZ continuous signal                                     |  |
| TONE 37 | Specific tone 660HZ continuous signal                                     |  |
| TONE 38 | Specific tone 750HZ continuous signal                                     |  |
| TONE 39 | Specific tone 925HZ continuous signal                                     |  |
| TONE 40 | Specific tone 970HZ continuous signal                                     |  |
| TONE 41 | Specific tone 2400HZ continuous signal                                    |  |
| TONE 42 | Specific tone 2850HZ continuous signal                                    |  |

## EN 54-23 Visual Alarm Devices



## A – Weighted Sound Level (max.)



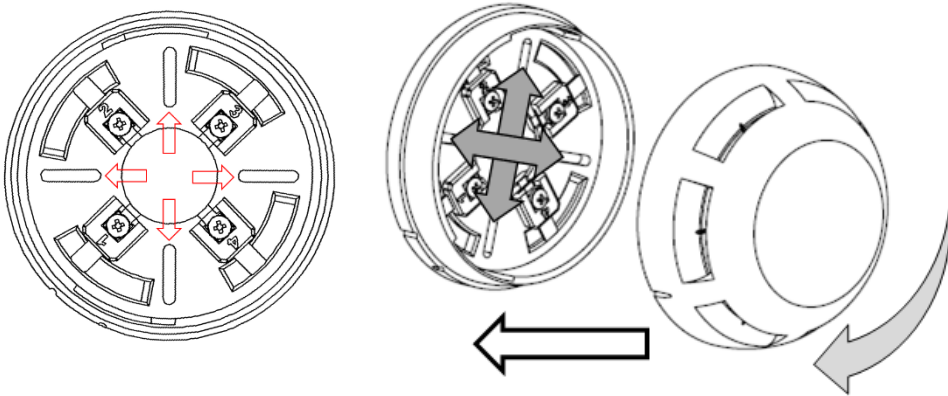
**Warning: The product only works with Teknim TFP-121x, Intelligent Addressable Fire Alarm panels.**

## Supported Flash Modes

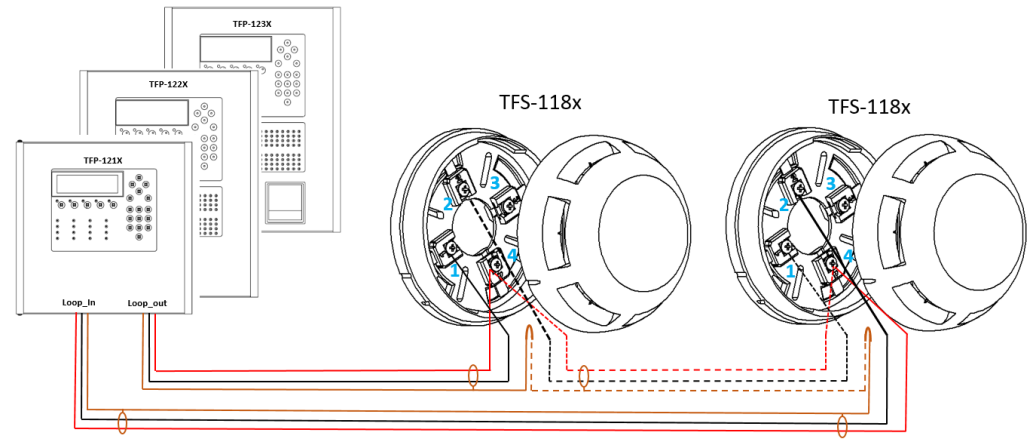
| Strobe Mode | Strobe Type   | Strobe Description |
|-------------|---|--------------------|
| MODE 1      | Slow Mode 0.5 Hz pwm signal<br>on delay 200 ms<br>off delay 1500 ms |                    |
| MODE 2      | Normal Mode 1 Hz pwm signal<br>on delay 200 ms<br>off delay 800 ms  |                    |
| MODE 3      | Fast Mode 2 Hz pwm signal<br>on delay 100 ms<br>off delay 400 ms    |                    |

## Installation and Connections

1. Remove the head of the sounder from the base.
2. Mount the base part on the wall, using 2 of the 4 markings marked on the base.



3. Connect the cable according to the following diagram.
4. Replace the flasher. Make sure that the line on the head meets the long line on the base.
5. Turn the flasher clockwise to the base, making sure that the terminals are tight.



## Test

1. TFS-1182 siren tests can be done in the menu of TFP-12XX Addressable Fire Alarm panels.
2. Check if flasher error occurs when panel is operated.
3. If sounder and flasher error, make sure the connections are made correctly.
4. If no sounder and flasher error, move the panel to the test position from the menus.
5. Run the sounder and flasher test. Observe the sounder and flasher side / flash status during the test period.
6. If the devices continuous warning lights are flashing during the test, the test is completed.

## Manufacture

### Bilgi Elektronik San. ve Tic. A.Ş.

Dudullu Organize Sanayi Bölgesi 1. Cadde İsmet Tarman İş Merkezi

No:1 Kat:2 No:32 Ümraniye / İstanbul / Türkiye

Telephone: +90 216 455 88 46 Fax: +90 216 455 99 06

[www.bilgielektronik.com.tr](http://www.bilgielektronik.com.tr)

[sales@bilgielektronik.com.tr](mailto:sales@bilgielektronik.com.tr)

[destek@bilgielektronik.com.tr](mailto:destek@bilgielektronik.com.tr)



\* 2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: [www.recyclethis.info](http://www.recyclethis.info).