**teknim**®

Fire and Security Technologies

# MEET TURKISH ENGINEERING

# PROMOTIONAL CATALOGUE 2025

PROMOTIONAL FILM

30+ years of experience

# WIRELESS FIRE ALARM SYSTEMS



Teknim wireless devices have been tested and awarded in accordance with EN54-13, the compatibility and integrity assessment of system components.

## EN54-25

# WIRELESS FIRE ALARM SYSTEMS

Teknim Wireless Fire Alarm Systems with TLPWAN Technology can be used in all places such as museums, historical sites, historical churches, mosques, hotels, and factories, which require a fire alarm system and where structural wiring is not possible or cable pollution is not desired.

Wireless system basically consists of four main components;

-Fire alarm Control Panel,
-Wireless Coordinator,
-Wireless Repeater,
-Wireless Devices (Detector, Sounder, Call Point, Input / Output Modules etc.)

can be integrated into Teknim Addressable Fire systems and a completely wireless or hybrid structure can be created according to the needs of the project.

Additionally, wireless products can work safely and highly compatible with all other brands in conventional systems. Thus, according to the need, you can provide an effective protection with either conventional or addressable wireless fire alarm system.
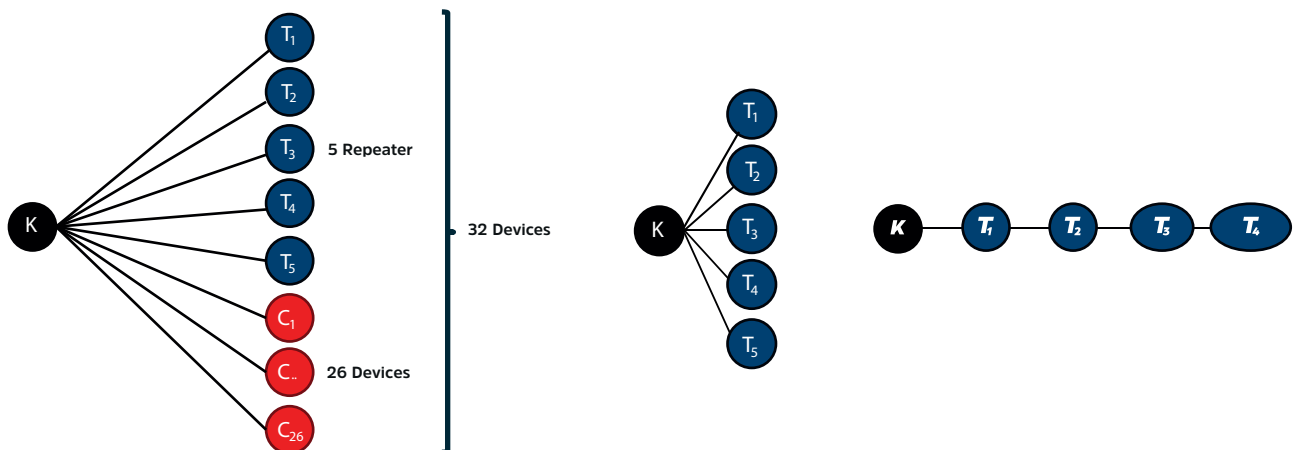
## TLPWAN TECHNOLOGY

The main features of the TLPWAN wireless fire detection structure are:
The system can work with Teknim addressable fire alarm panels or with all other brands of conventional fire alarm panels.

-Approx. 2000 m. between repeaters (open space), approx. 1250 m. between endpoints (open space).
-Supports up to 31 device per coordinator (26 Device + 5 Repeater).
-Supports tamper warning for all devices.
-Supports link test feature for all devices.
-Supports firmware update feature for all devices.
-IEEE 802.15.4 standard.
-Low power consumption.
-Bidirectional communication.
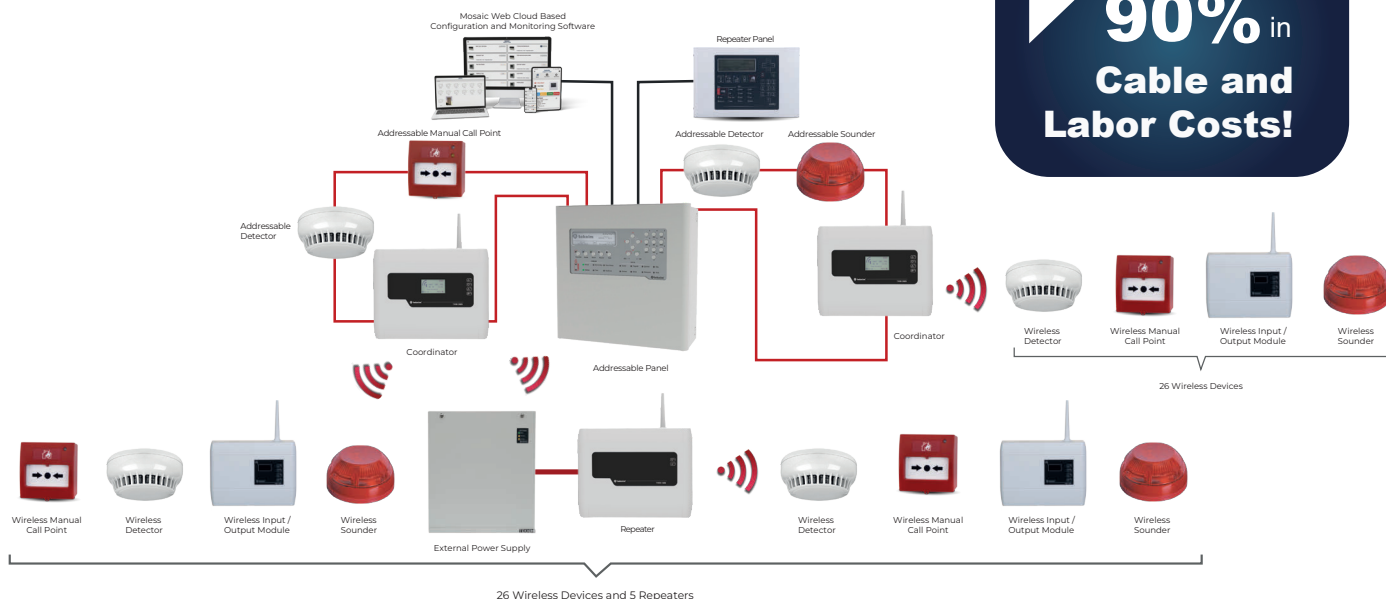-AES-128 encryption algorithm.
-2 layer ACK structure.

## TLPWAN Network Limits



-All devices can be connected to the last layer or distributed in all layers.
-Up to 4 repeaters can be connected consecutively to a coordinator.
-At least 5 of the devices to be connected to a coordinator are reserved only for repeaters and at most 26 are reserved for other devices.
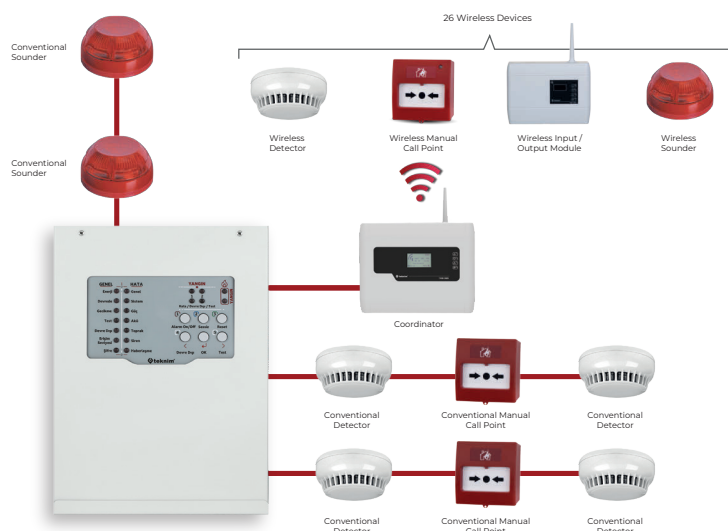
## Wireless Addressable Fire Alarm System Diagram

Mosaic Web Cloud Based
Configuration and Monitoring Software

Repeater Panel

Addressable Manual Call Point

Addressable Detector

Addressable Sounder

Addressable Detector

Coordinator

Coordinator

Addressable Panel

Wireless Detector

Wireless Manual Call Point

Wireless Input / Output Module

Wireless Sounder

26 Wireless Devices

Wireless Manual Call Point

Wireless Detector

Wireless Input / Output Module

Wireless Sounder

External Power Supply

Repeater

Wireless Detector

Wireless Manual Call Point

Wireless Input / Output Module

Wireless Sounder

26 Wireless Devices and 5 Repeaters

**Savings of up to 90% in Cable and Labor Costs!**

## EN54-13

Teknim wireless devices have been tested and awarded in accordance with EN54-13, the compatibility and integrity assessment of system components. EN54-13 certification proves that wireless system components work together in perfect harmony.

26 Wireless Devices

Conventional Sounder

Conventional Sounder

Wireless Detector

Wireless Manual Call Point

Wireless Input / Output Module

Wireless Sounder

Coordinator

Conventional Detector

Conventional Manual Call Point

Conventional Detector

Conventional Detector

Conventional Manual Call Point
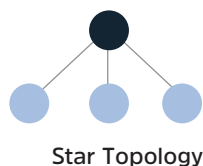
Conventional Detector

## Wireless Conventional Fire Alarm System Diagram

TWM-1985 Wireless Addressable Coordinator can only be used with Teknim brand addressable fire panels, while the TWM-3985 Wireless Conventional Coordinator can be used with all brands and models of conventional fire panels. In this way, you can design a project completely wireless as in addressable or conventional, you can expand a previously installed system with wireless products, or you can create a hybrid structure by designing the project both wired and wireless from the beginning.

TLPWAN (Teknim Low Power Wide Area Network) is a wireless communication protocol in which devices with low power requirements communicate in a stable and reliable way using 2-way communication in a wide area. Thanks to its advanced addressing mechanism, it enables router devices to join the network easily. This allows the wireless communication area to be expanded easily.

- Coordinator
- Router
- Devices
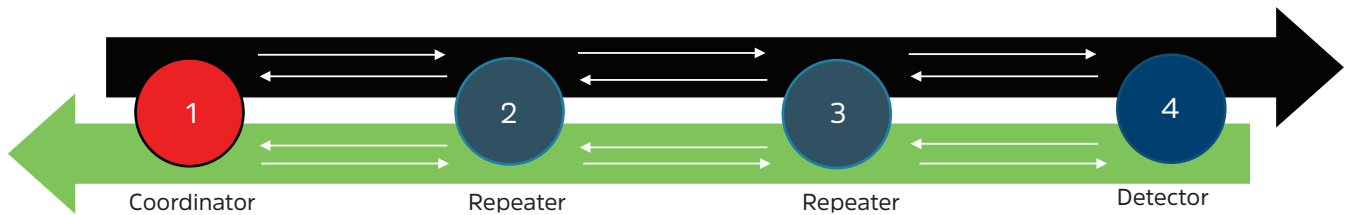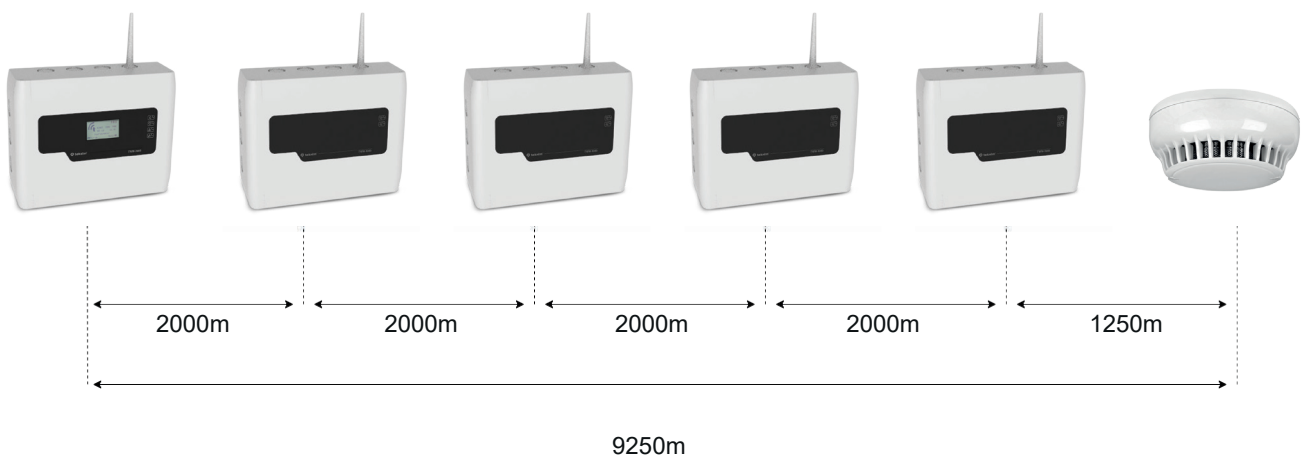
**Star Topology**

**Tree Topology**

# ACK MECHANISM

ACK (Acknowledgment) is a control message that checks whether the data is sent or not and starts the resend mechanism if it is not.

TLPWAN uses a 2-layer ACK structure to guarantee the transmission of data.



| 1 | 2 | 3 | 4 |
|---|---|---|---|
| Coordinator | Repeater | Repeater | Detector |

# SIGNAL STRENGTH AND DISTANCE

-Up to 9250m communication distance at open space



| 2000m | 2000m | 2000m | 2000m | 1250m |
|---|---|---|---|---|

9250m

-Significant decreases in the signal power level may occur in places with high mobility such as parking lots, warehouses, factories, workshops, or in difficult structures such as multi-column and beam, thick walls, or in areas where metal and glass objects are predominant.

## TWM-1985  Wireless Intelligent Addressable Coordinator

Teknim TWM-1985 Addressable Coordinator is an interface that enables wireless devices such as detectors, MCPs, 1/0 Modules and sounders to be operated with Teknim addressable fire alarm panels.

### General Features

-Fully compatible with Teknim addressable fire alarm panels.
-Fully wireless or hybrid system design options.
-Easy and fast installation, commissioning, and usage with OLED screen.
-Supports 31 wireless devices per coordinator (26 devices and 5 repeaters).
-Up to 1250m wireless coverage (open space).

**EN54-13**   **EN54-18**   **EN54-25**

## TWM-3985  Wireless Conventional Coordinator

Teknim TWM-3985 Conventional Coordinator is an interface device that enables wireless devices to be operated with any brand of conventional fire alarm panels. It can be programmed via bluetooth.

### General Features

-Fully compatible with all brands of conventional fire alarm panels.
-Can be programmed via Bluetooth.
-4095 event longs with time stamps.
-LCD screen to display all event logs.
-Fully wireless or hybrid system design options.
-Easy and fast installation, commissioning, and usage.
-Supports 31 wireless devices per coordinator (26 devices and 5 repeaters).
-Up to 1250m wireless coverage (open space).

**EN54-18**   **EN54-25**

## TWM-1986  Wireless Repeater

TWM-1986 Wireless Repeater allows the wireless network area to be expanded by connecting to the coordinator or another repeater. It is mainly used to increase the communication distance between the wireless coordinator and wireless devices.

### General Features

-Fully compatible with TWM-1985 and TWM-3985 coordinators.
-External power 18–35 VDC.
-Includes battery for electrical outages.
-Easy and fast installation, commissioning, and usage.
-Up to 1250m wireless coverage (open space).

**EN54-18**   **EN54-25**

## TWA-1891  Wireless Survey Kit

TWA-1891 Wireless Survey Kit simulates wireless devices and measures their range to assist installers in finding the most suitable location prior to installation.

### General Features

-A portable device for system scanning and pollution measurement.
-Detects the existing Teknim wireless networks (PAN).
-Measures the signal strength of wireless devices prior to installation to find proper location for installation.
-Operates with a 9V battery and indicates battery level on the LCD screen.

## TWS-1915  Wireless Sounder with Beacon

TWS-1915 works as sounder, beacon or both options at the same time according to project needs. It operates with 4pcs CR123A battery and communicates completely wirelessly with the control panel.

**General Features**

-IP 21C protection.
-UL94 non-flammability polycarbonate body.
-Up to 1250m wireless coverage (open space).
-Up to 6 years battery lifetime with 4x CR123A batteries.
-Only sounder, only beacon, or both options can be operated.
-3 different sound levels (42 tones) / 3 different flasher modes (slow, normal, fast).

**EN54-3**   **EN54-25**

## TWB-1966  Wireless Manual Call Point

TWB-1966 is a wireless manual call point used to create manual warning in case of fire. It supports resettable type of operation and additional protection cover can be implemented to avoid situations that may cause false alarms.

**General Features**

-Up to 1250m wireless coverage (open space).
-Up to 8 years battery lifetime with two CR123A batteries.
-Resettable type of operation.
-Optional protection cover.

**EN54-11**   **EN54-25**

## TWD-1950  Wireless Multi Detector (Smoke & Heat)

TWD-1950 Wireless Multi Detector offers excellent wireless solutions with wide coverage and long-term battery life, especially in places where wiring is costly or impossible. The wireless multi detector offers different types of detection options in a single detector.

**General Features**

-Up to 1250m wireless coverage (open space).
-Up to 8 years battery lifetime with two CR123A batteries.
-Only optical smoke / only fixed heat / only heat rise / smoke and fixed heat / smoke or fixed heat / smoke and heat rise / smoke or heat rise.

**EN54-5**   **EN54-7**   **EN54-25**

## TWM-1987  Wireless I/O Module

TWM-1987 Wireless input / output module is used to connect 3rd party wired products to the control panel wirelessly or to control a 3rd party device wirelessly. Input terminal is monitored for connection errors. Input and output can be programmed to be used in any scenario through the panel.

**General Features**

Up to 1250m wireless coverage (open space).
Up to 8 years battery lifetime with four CR123A batteries.
1 monitored input + 1 output.

**EN54-18**   **EN54-25**

# INTELLIGENT ADDRESSABLE FIRE ALARM SYSTEM

## EN54-13

Teknim addressable fire alarm devices have been tested and awarded in accordance with EN54-13, the compatibility and integrity assessment of system components.

# INTELLIGENT ADDRESSABLE FIRE ALARM PANEL

TFP series Intelligent Addressable Fire Alarm Panel uses unique FLASHLINK protocol for loop communication. It comes with LCD graphic display onboard to easily understand the error and alarm warnings and to make all the settings of the device. All addressable panels supports built-in LAN network connection which allows local or remote configuration / monitoring by Teknim Mosaic monitoring software.

**TS EN54-2**

**TS EN54-4**

## GENERAL FEATURES

-Supports 1-2-4 Loop Capacity.
-Supports 240 Devices per Loop and up to 72 zones.
-Supports 72 Zones Led Indicators for fire and faults (TFP-211x).
-Supports Built-in Thermal Printer (TFP-213X models).

-Network up to 16 Control panels via RS-485 by TFC-1209 Network Module.
-Supports 12.000 events of alarms, errors, and warnings.
-Supports mobile application.

### PANEL MODELS

| | | |
|---|---|---|
| TFP-2211 | 1 LOOP | INTELLIGENT ADDRESSABLE FIRE ALARM PANEL |
| TFP-2212 | 2 LOOP | INTELLIGENT ADDRESSABLE FIRE ALARM PANEL |
| TFP-2214 | 4 LOOP | INTELLIGENT ADDRESSABLE FIRE ALARM PANEL |
| TFP-2111 | 1 LOOP | INTELLIGENT ADDRESSABLE FIRE ALARM PANEL WITH ZONE INDICATOR |
| TFP-2112 | 2 LOOP | INTELLIGENT ADDRESSABLE FIRE ALARM PANEL WITH ZONE INDICATOR |
| TFP-2114 | 4 LOOP | INTELLIGENT ADDRESSABLE FIRE ALARM PANEL WITH ZONE INDICATOR |
| TFP-2131 | 1 LOOP | INTELLIGENT ADDRESSABLE FIRE ALARM PANEL WITH ZONE INDICATOR, BUILT-IN PRINTER |
| TFP-2132 | 2 LOOP | INTELLIGENT ADDRESSABLE FIRE ALARM PANEL WITH ZONE INDICATOR, BUILT-IN PRINTER |
| TFP-2134 | 4 LOOP | INTELLIGENT ADDRESSABLE FIRE ALARM PANEL WITH ZONE INDICATOR, BUILT-IN PRINTER |

## TFP-1240  Intelligent Addressable Repeater

Teknim TFP-1240 repeater panel is developed to monitor and intervene fire detection systems from different points at largeand medium scale enterprises. It can be connected approximately up to 1.000 mt distance from main panel via RS-485 communication.
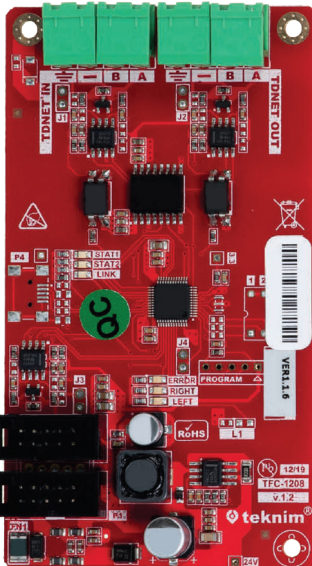
**General Features**
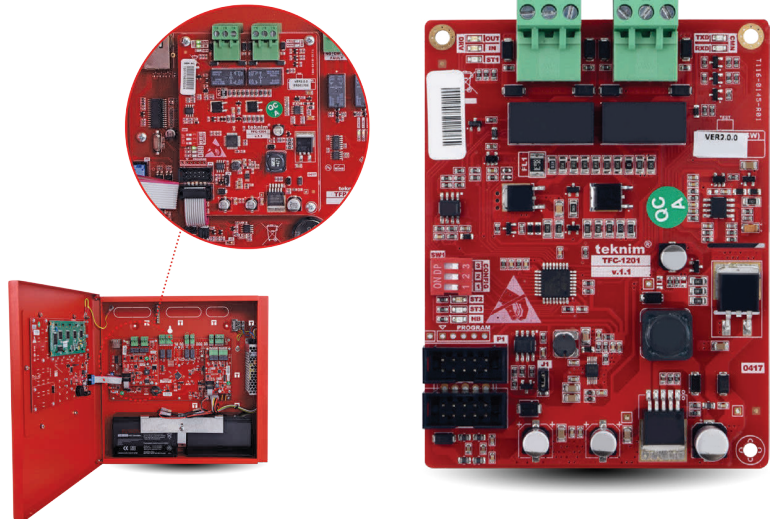
-Easy to read, 240x64 wide LCD Display.
-User-friendly interface enables easy monitoring of alarms, errors, and warnings.
-Real-time, stabilized communication via RS-485 communication structure.
-Up to 1 Km cable distance with main panel.

## TFC-1201  Loop Board

TFC-1201 Loop board communicates with addressable devices over loop line using FlashLink protocol. It has a control capacity of 240 device. It is used for increasing loop quantities to 2 loops of TFP-2211, TFP-2111 and TFP-2131 Control Panels.

**General Features**

-Supports FlashLink protocol.
-240 device capacity.
-Class A and Class B connection support.

## TFC-1209  Network Module with Built-in Isolator

TFC-1209 Network Module establishes a strong ring or bus network by inter-connecting 16 panels via TdNET protocol. It also supports built-in isolator which helps to protect the network line in case there will be a short cut at the cable between control panels.

**General Features**

-Supports Built-in Isolator.
-Ensures a reliable and logic data transmission via Ring and Bus topologies.
-Uses RS485 serial communication.
-Peer-to-peer communication network.
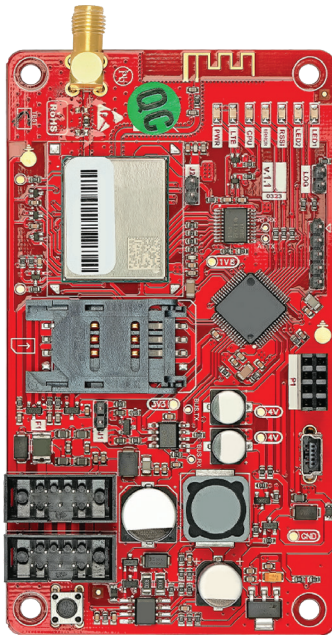-Network connection up to 16 panels.

## TFCM-1801  Device Programmer

TFCM-1801 device programming module is developed to define address for addressable devices such as detectors, mcp, input-output modules or to read defined address and firmware version of the devices. It is supplied from 9V (6LR61) battery.

**General Features**

-It can be connected to all Teknim addressable devices regardless direction of connector.
-Saves the last address in memory by "Memorize" feature and prevents double address errors.
-Auto Off feature switches the device to standby mode when not in use.

## TXM-5474  LTE Module

TXM-5474 provides 4G communication support, enabling cloud connection via a SIM card for using Teknim Mobile Application and Teknim Mosaic software. It supports all Teknim Addressable Fire Panels and TFP-31XX Conventional Fire Alarm Panels.

**General Features**

-Provides connection with the alarm receiving center via LTE or GPRS.
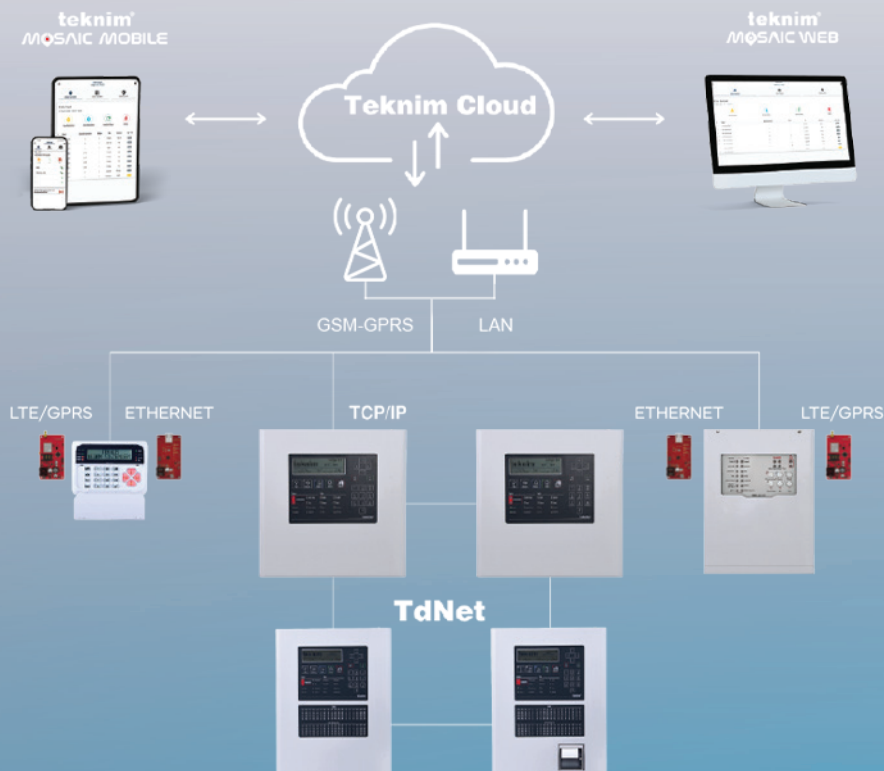-Supports cloud connection to use Teknim Mobile Application and Teknim Mosaic Web (Through the mobile application).

# MOSAIC

# Teknim Addressable Fire Alarm Monitoring Software

Mosaic is a web-based graphical monitoring software for Teknim addressable fire alarm system. It supports adding multiple maps and adding all devices to maps according to project needs. It has an easy-to-use interface and supports pop-up visual and audible alerts during alarms/warnings. It also supports sending commands to control panels such as reset, silence or evacuate.

The Mosaic platform allows users to control addressable and/or conventional fire alarm systems via both web and mobile application and also allows dealers to configure these systems on the same platform.

## General Features

-Supports multiple control panels at the same time.
-Multi-layer map design.
-POP-UP alarm information.
-Supports API Integration for 3rd party sofware.
-CCTV integration.
-Ability to view pollution levels, detection ranges, and battery percentages (for wireless systems).
-Remote command sending for silence, evacuation, reset.
-Multiple map adding (.png, .bmp and .jpeg).
-Display/save unlimited number of event logs by filtering (pdf).
-Multi-language support.
-Supports Repeater Panel interface.

# MOSAIC WEB

## CCTV Integration
*Real-time monitoring and control

## Mobile Application
*Mobile application   *Event history
*Command sending   *Configuration

## Notifications
*Pop-up on the map   *SMS
*Central Monitoring Station (CMS)
*Voice call

## Wireless Fire Alarm
*Conventional wireless fire alarm
*Addressable wireless fire alarm

## Addressable Fire Alarm
*TFP-12XX and TFP-21XX series panels

## Conventional Fire Alarm
*TFP-312X series panels

## Intrusion Alarm
*Teknim Pars series

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## TFD-2350  Smoke Detector &
## TFD-2351  Smoke Detector with Built-in Isolator

TFD-2351 and TFD-2350 Detectors has been designed to be connected to two-wired loop circuit carrying both data and power. It uses FlashLink communication protocol to communicate with Teknim Addressable control panels. Detector supports optical sensing technology by using a unique smoke chamber perfected by Teknim.

**TS EN54-17**     **TS EN54-7**     **EN54-13**

## TFD-2360  Heat Detector (Fixed Heat and Heat Rise) &
## TFD-2361  Heat Detector (Fixed Heat and Heat Rise)
## with Built-in Isolator

TFD-2361 and TFD-2360 Detectors use heat detection technologies to sense fire and it can be connected to two-wired loop circuit carrying both data and power. It uses FlashLink communication protocol to communicate with Teknim Addressable control panels. It has a series of algorithms to minimize faulty detections.

**TS EN54-17**     **TS EN54-5**     **EN54-13**

## TFD-2370  Multi Detector (Optical Smoke & Heat)  &
## TFD-2371  Multi Detector (Optical Smoke & Heat) with
## Built-in Isolator

TFD-2371 and TFD-2370 detectors use combination of optical and heat detection technologies to sense fire and it can be connected to two-wired loop circuit carrying both data and power. It uses FlashLink communication protocol to communicate with Teknim Addressable control panels.

**TS EN54-17**     **TS EN54-7**     **TS EN54-5**     **EN54-13**

## TFB-2266  Resettable Manual Call Point with Built-in Isolator

TFB-2266 is an addressable manual call point with built-in isolator. It has resettable operation structure which can be reset by using a special plastic key.

**TS EN54-11**    **TS EN54-17**    **EN54-13**

## TFD-1170  Intelligent Addressable Natural Gas Detector

TFD-1170 is a natural gas detector which can be connected to Teknim addressable fire alarm systems.

**General Features**

• TSE TS-EN 50184-1 Certified.
• 85dB Alarm Sound Level.
• TEST button for buzzer and LEDs.
• 2x LED indicators enable 360° view from all directions.
• Suitable for Ceiling and Wall Mounting.

## TFM-1281  Base With Buzzer

TFM-1281 Base with Buzzer is used with addressable detectors for audible warning notification in case of alarm.

**EN54-3**

## TFS-1181  Sounder with Built-in Isolator

Teknim TFS-1181 is an internal use fire alarm sounder and is connected directly to the loop line. It can be powered by loop line and has built-in isolator to protect the loop against shortcuts.

### General Features

-85dB Sound level with 42 Different Sound Tone.
-3 Different Sound Level Options.
-UL94 non-flammable plastic frame in IP21C protection class.

**EN54-17**   **EN54-3**

## TFS-1182R/W   Sounder and Beacon with Built-in Isolator

Teknim TFS-1182 is an internal use fire alarm sounder / beacon and is connected directly to the loop line. It can be powered by loop line and has built-in isolator to protect the loop against shortcuts. TFS-1182 supports 42 different tone and 3 different flasher mode options.

### General Features

-85dB Sound level with 42 Different Sound Tone.
-3 Different Sound Level Options.
-3 Different Flasher and Brightness Mode.
-UL94 non-flammable poly carbonate plastic frame.

**EN54-23**   **EN54-17**   **EN54-3**

## TFS-1183R/W   Beacon with Built-in Isolator

Teknim TFS-1183 is an internal use fire alarm beacon and is connected directly to the loop line. It can be powered by loop line and has built-in isolator to protect the loop against shortcuts. TFS-1183 supports 3 different flasher mode and brightness options.

### General Features

-3 Different Flasher Mode.
-3 Different Brightness Mode.
-White and Red Color Options.
-UL94 non-flammable poly carbonate plastic frame.

**EN54-23**   **EN54-17**

## TFM-1661  Conventional Zone and Sounder Module with Built-in Isolator

TFM-1661 Conventional Zone and Sounder Module has been designed to be used with addressable fire alarm panels and allows the use of conventional devices in the addressable system, which can transmit alarm and fault information via the loop in a zonal sense and gives a sounder output. The device supports built-in isolator to protect the loop line against short circuit.

**General Features**

-EN54-18 and EN54-17 Certified.
-32 detectors per zone and multiple call points.
-Built-in Isolator.
-4 LED indicators.

**EN54-18**     **EN54-17**

## TFM-1431  I/O Module with Built-in Isolator

TFM-1431 is used with addressable fire alarm panels and supports single input and output. The device also supports built-in isolator to protect the loop line against short circuit.

**EN54-18**     **EN54-17**     **EN54-13**

## TFM-1011  Input Module with Built-in Isolator

TFM-1011 supports single monitored input and can be used with addressable fire alarm panels. The device also supports built-in isolator to protect the loop line against short circuit.

**EN54-18**     **EN54-17**     **EN54-13**

## TFM-1221  I/O Module with Built-in Isolator

TFM-1221 supports single monitored input and single output which supports external power connection and allows to connect such as conventional sounders etc. It can be used with addressable fire alarm panels. The device also supports built-in isolator to protect the loop line against short circuit.

**EN54-18**     **EN54-17**     **EN54-13**

## TFA-1196  Remote Indicator

In case where alarm LEDs on detectors are not visible due to installation on high ceilings, false ceilings, raised floor, restricted access rooms etc., remote indicator is used as an additional indicator light. The big red LED in 10mm diameter can be seen even from high ceiling.
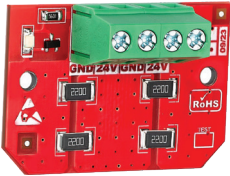
## TFA-0120  Detector Base

Teknim TFA-0120 detector base has been developed to be used with all Teknim Fire alarm detectors. Insert type contact structure minimizes non-contact problems on the field.

## TFA-0130R / TFA-0130W  Deep Base

TFA-0130 Deep base is used to allow cable tube entry and cable connections to be made easily on the detector base, especially where surface mounting is performed.

## TFA-0135  Heater for Deep Base

The TFA-0135 is a heater that must be installed inside the TFA-0130 Deep base and is used to raise the temperature of the base. It is intended for use in environmental conditions where freezing or condensation can occur on the detector base, potentially leading to false alarms.

## TFA-0121  Detector Label Tag

TFA-0121 is a label tag designed to be installed on detector base to easily view address information of detectors.

## TFA-0165  Transparent Protection Cover

The cover is made of robust polycarbonate transparent material. It is used to prevent accidental button activation.

# CONVENTIONAL
# FIRE ALARM SYSTEM

## TFP-4404 / TFP-4404P  4 Zone Fire Alarm Panel

TFP-4404 supports 4 zones and maximum 32 Conventional detectors and manual call points. It is the first choice of professionals with its solid metal body design, easy installation, and high performance.

### General Features

-Fully monitorable 4 zone capacity.
-Maximum 32 conventional detectors for each zone.
-Separate fire and error LEDs for each zone.
-Smart start feature that prevents direct starting from the battery.
-Walk-through test function that can be performed by a single person
-Disabling of each zone individually.
-Supervision for sounder outputs and zone inputs against faulty connections with EOL resistances.
-2x 500mA sounder outputs allowing maximum 50 sounder connection (if used Teknim TFS-3192 sounders).
-24VDC 500mA external supply output with automatic fuse (AUX).
-1x NC/NO fire relay (button alarm, detector alarm, etc.).
-1x NC/NO error relay (energy failure, zone failure, battery failure, etc.).
-Passcode to prevent unauthorized access.
-Switch mode power supply (SMPS) (27.6VDC SMPS 1.5Ah automatic fuse).
-Metal enclosure (TFP-4404) / Plastic enclosure (TFP-4404P).

**EN54-2**   **EN54-4**

## TFP-4408 / TFP-4408P  8 Zone Fire Alarm Panel

TFP-4408 has 8 zones and maximum 32 Conventional fire detectors and manual call points can be connected to each zone. It is the first choice of professionals with its elegant metal body design, easy installation and high performance. The panel meets all technical values required under European Standards.

### General Features

-Fully monitorable 8 zone capacity.
-Maximum 32 conventional detectors for each zone.
-Separate fire and error LEDs for each zone.
-Smart-start feature that prevents direct starting from the battery.
-Walk-through test function that can be performed by a single person.
-Disabling of each zone individually.
-Supervision for siren outputs and zone inputs against faulty connections with EOL resistances.
-2x 500mA siren outputs—allowing maximum 50 sounder connection (if used Teknim TFS-3192 sounders).
-24VDC 500mA external supply output with automatic fuse (AUX).
-1x NC/NO fire relay (button alarm, detector alarm, etc.).
-1x NC/NO error relay (energy failure, zone failure, battery failure, etc.).
-Passcode to prevent unauthorized access.
-Switch-mode power supply (SMPS) (27.6VDC SMPS 1.5Ah automatic fuse).
-Metal enclosure (TFP-4408) / Plastic enclosure (TFP-4408P).

**EN54-2**   **EN54-4**

## TFP-3122  2 Zone Fire Alarm Panel

### General Features

-Up to 32 detectors supports for each zone.
-Seperate detection in same zone between Call Points and Detector.
-Control and receive real-time notifications via a web browser or mobile application using TXM-5271 (Ethernet) or TXM-5474 (LTE) modules.
-Sending SMS by using the TXM-5474 LTE module (Optional).
-Define a general delay time between 1 to 10 minutes.
-Zones with "Fire and Fault/Disabled/Test" LEDs.
-Intelligent battery charging system that extends battery life, with a smart shutdown feature to protect the battery when the voltage drops below 10.5 VDC.
-Zone testing feature with end-of-line resistors for supervision against incorrect connections for sounder outputs and zone inputs.
-24 VDC 300mA automatic fused external power output (AUX).
-1 NC/NO alarm relay (for call points alarms, detector alarms, etc.)
-1 NC/NO fault relay (for power failure, zone fault, battery fault, etc.)
-Passcode to Prevent Unauthorized Access.
-Disable option for each zone.
-Switching power supply.
-Metallic Enclosure .
-Operates with 1x of 12V 7Ah battery.

**EN54-2**   **EN54-4**

## TFP-3124  4 Zone Fire Alarm Panel

### General Features

-Up to 32 detectors supports for each zone.
-Seperate detection in same zone between Call Points and Detector.
-Control and receive real-time notifications via a web browser or mobile application using TXM-5271 (Ethernet) or TXM-5474 (LTE) modules.
-Sending SMS by using the TXM-5474 LTE module (Optional).
-Define a general delay time between 1 to 10 minutes.
-Zones with "Fire and Fault/Disabled/Test" LEDs.
-Intelligent battery charging system that extends battery life, with a smart shutdown feature to protect the battery when the voltage drops below 10.5 VDC.
-Zone testing feature with end-of-line resistors for supervision against incorrect connections for sounder outputs and zone inputs.
-24 VDC 300mA automatic fused external power output (AUX).
-1 NC/NO alarm relay (for call points alarms, detector alarms, etc.)
-1 NC/NO fault relay (for power failure, zone fault, battery fault, etc.)
-Passcode to Prevent Unauthorized Access.
-Disable option for each zone.
-Switching power supply.
-Metallic Enclosure.
-Operates with 1x of 12V 7Ah battery.

**EN54-2**   **EN54-4**

## TFD-4230  Conventional Optical Smoke Detector

TFD-4230 Conventional Optical Smoke Detector uses advanced Light Scatter technology to detect smoke entering in its chamber. Detector provides maximum level of protection with its advanced optical sensing technology.

**General Features**

-Detects smoke particles in the environment via light scatter principle.
-Supports 2x LED indicators enabling 360° view.
-Two different colors of indication by LEDs to individually display error and alarm conditions (blue/red).
-Special software algorithms to eliminate sudden dust, smoke, etc., which may cause faulty alarms.
-Supports remote indicator connection.
-Compatible with any brand of conventional fire panel.

**EN54-7**

LPCB
1692a/01

UK CA
0832-UKCA-CPR-F1393

CE

## TFD-4240  Conventional Fixed Heat Detector

TFD-4240 Conventional Fixed heat detector uses two NTC for precise measurement of the environment to detect fire. Detector classified as A2S and will report an alarm at 55°C.

**General Features**

-Designed with 2 NTCs to ensure more accurate and precise temperature measurement.
-Supports 2x LED indicators enabling 360° view.
-Two different colors of indication by LEDs to individually display error and alarm conditions (blue/red).
-Supports parallel indicator connection terminals.
-Compatible with any brand of conventional fire panel.

**EN54-5**

LPCB
1692b/01

UK CA
0832-UKCA-CPR-F1394

CE

## TFD-4245  Rate of Rise Heat Detector

TFD-4245 Conventional rate of rise heat detector designed to detect rapid temperature rise by using 2 NTCs to make an accurate measurement in the environment.

### General Features

-Designed with 2 NTCs to ensure more accurate and precise temperature measurement.
-Supports 2x LED indicators enabling 360° view.
-Two different colors of indication by LEDs to individually display error and alarm conditions (blue/red).
-Supports parallel indicator connection terminals.
-Compatible with any brand of conventional fire panel.

**EN54-5**

LPCB
1692b/02

UK CA
0832-UKCA-CPR-F1395

CE

## TFD-4250  Multi Detector (Optical Smoke and Heat)

TFD-4250 Conventional Multi Detector uses optical and heat sensing technologies to detect fire condition. Detector has a series of algorithms developed to minimize faulty detections.

### General Features

-Detects smoke particles in the environment via light scatter principle.
-Detector classified as A2S for heat detection.
-Supports 2x LED indicators enabling 360° view.
-Two different colors of indication by LEDs to individually display error and alarm conditions (blue/red).
-Special software algorithms to eliminate sudden dust, smoke, etc., which may cause faulty alarms.
-Supports parallel indicator connection terminals.
-Compatible with any brand of conventional fire panel.

**EN54-5**    **EN54-7**

LPCB
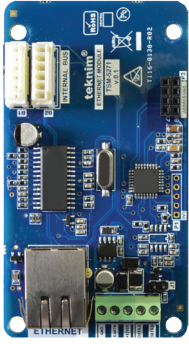1692c/01

UK CA
0832-UKCA-CPR-F1396

CE

## TSD-701  Natural Gas Detector

TSD-701 is a natural gas detector which can be connected to conventional fire alarm systems (NO) and Intruder alarm systems (NC) or to be used as a stand-alone device with 12-24V external power supply.

### General Features

-TSE TS-EN 50194-1 certified.
-85dB alarm sound level.
-TEST button for buzzer and LEDs.
-2x LED indicators enabling 360° view from all directions.
-NO relay for fire alarm systems and NC relay for intruder alarm systems.

TSE

GAZMER

## TXM-5271 ETHERNET Module

TXM-5271 is designed to communicate with the alarm receiving centers (ARC) by connecting to the internet via ETHERNET. It also allows to communicate with Teknim cloud to use Teknim Mobile Application and Teknim Mosaic Web platform.

**General Features**

-Provides connection with the alarm receiving center via ETHERNET.
-Supports cloud connection to use Teknim Mobile Application and Teknim Mosaic.
-Supports TFP-31XX Series Conventional Panels.

## TFA-3196 Remote Indicator

In case where alarm LEDs on detectors are not visible due to installation on high ceilings, false ceilings, raised floor, restricted access rooms etc., remote indicator is used as an additional indicator light. The big red LED in 10mm diameter can be seen even from high ceiling.

## TFB-3168 Conventional Manual Call Point

TFB-3168 has been designed to be used with all brands of conventional fire alarm systems and comply with EN54-11. Internal 470-ohm resistance allow ease of installation. It has resettable operation structure which can be reset by using a special plastic key.

**General Features**

-Resettable.
-NC/NO Selection.
-Includes 470 Ohm Resistance, does not Require Additional Connection.
-Optional Transparent Protection Cover can be Installed. Cover can be Sealed.

**EN54-11**

## TFB-3165X Emergency Call Points

Designed to be connected to any brand of conventional fire detection systems. Internal 470-ohm resistance allow ease of installation. An optional transparent protective cover can be installed. It is easily resettable via special key.

### General Features

-Resettable Type.
-NC/NO Selection.
-Includes 470 Ohm Resistance, does not Require Additional Connection.
-Transparent Protection Cover can be Installed. Cover can be Sealed.
-Compatible With all Conventional Fire Alarm Systems.
-TFB-3165W Emergency Call Point – WHITE.
-TFB-3165B Emergency Stop Call Point - BLUE.
-TFB-3165Y Manual Release Button – YELLOW.
-TFB-3165G Emergency Exit Door Release Button – GREEN.
-TFB-3165O Discharge Button - ORANGE.

## TFS-3192R/W  Conventional Fire Alarm Sounder with Strobe

Teknim TFS-3192 internal fire alarm sounder and strobe has aesthetic design, low power consumption and are suitable for use with any brand of fire detection systems.

**General Features**

-Wall mount.
-100dB high sound level.
-IP21C protection class.
-Red/White, transparent UL94 non-flammable poly carbonate plastic frame.

**EN54-3**    **EN54-23**

## TFS-3193R/W  Conventional Fire Alarm Strobe

Teknim TFS-3193 internal fire alarm strobe has aesthetic design, low power consumption and is suitable for use with any brand of fire detection systems.

**General Features**

-Wall mount.
-IP21C protection class.
-Red/White, transparent UL94 non-flammable poly carbonate plastic frame.

**EN54-23**

## TFS-3191R/W  Conventional Fire Alarm Sounder

Teknim TFS-3191 fire alarm sounder has aesthetic design, low power consumption, and is suitable for use with any brand of fire detection systems.

**General Features**

-Wall Mount.
-100dB high sound level.
-IP21C protection class.
-Red/White, transparent UL94 non-flammable poly carbonate plastic frame.

**EN54-3**

## TFS-5792 - Outdoor Fire Alarm Sounder with Flasher

TFS-5792 Sounder with flasher is a new designed for any brand of conventional fire detection systems, suitable for use in external environments.

**General Features**

-6X Super Bright LED / Flasher.
-115dB/24V @1mt.
-IP65 Protection.

## TPU-9245  External Power Supply 24VDC 5A

TPU-9245 is designed to use in systems where required external power supply by providing 24VDC 5A uninterrupted power with an intelligent battery charger unit and complies with EN54-4.

### General Features

-Selectable Single or Dual Output.
-Supports 7Ah or 12Ah Backup Battery.
-Dry Contact Relay Output for Error.
-Led Indicators for Fault.
-Intelligent Battery Charging with Temperature Compensation.
-Wide Input Voltage Range, 110 to 240VAC.
-Protection Against Short Circuit and Overload Conditions.
-Fully Enclosed and Robust Metallic Case.

**EN54-4**

## TPU-9245P  External Power Supply 24VDC 5A

TPU-9245P is designed to use in systems where required external power supply by providing 24VDC 5Ah uninterrupted power with an intelligent battery charger unit and complies with EN54-4.

### General Features

-Selectable Single or Dual Output.
-Supports 7Ah Backup Battery.
-Dry Contact Relay Output for Error.
-Led Indicators for Fault.
-Intelligent Battery Charging with Temperature Compensation.
-Wide Input Voltage Range, 110 to 230V AC.
-Protection Against Short Circuit and Overload Conditions.
-Plastic Enclosure.

**EN54-4**

## TPU-9243P  External Power Supply 24VDC 3,5A

TPU-9243P is designed to use in systems where required external power supply by providing 24VDC 3,5Ah uninterrupted power with an intelligent battery charger unit and complies with EN54-4.

### General Features

-Supports 7Ah Backup Battery.
-Dry Contact Relay Output for Error.
-Led Indicators for Fault.
-Intelligent Battery Charging with Temperature Compensation.
-Wide Input Voltage Range, 110 to 230V AC.
-Protection Against Short Circuit and Overload Conditions.
-Plastic Enclosure.

**EN54-4**

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