

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.

TFP-12XX

1-2-4 Loop Intelligent Addressable Fire Alarm Panel



EN54-2 EN54-4 EN54-13

TFP-12XX series Intelligent Addressable Fire Alarm Panels are uses unique FLASHLINK protocol for loop communication which created by Teknim engineers. Supports 1-2 Loop (240 Device per Loop) and 4 Loop (127 Device per Loop) and supports network up to 16 control panels. It offers stable and reliable solutions for working in harsh environments with the metallic case.

TFP-12XX also supports built-in LAN network connection which allows local or remote configuration / monitoring by Teknim TFY-100 configuration software and Mosaic monitoring software. In addition, panel can be remotely monitor and configure by Teknim Cloud Based Mobile Application.

TFP-12XX comes with an LCD graphic display onboard to easily understand the error and alarm warnings and to make all the settings of the device.

TFP-12XX Fire Alarm Panels are designed in accordance with European Standards which supports EN54-2 and EN54-4 Certificates.

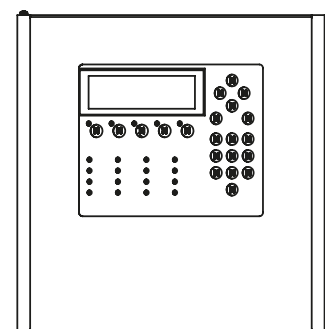
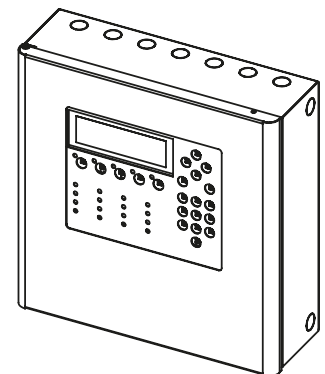
Teknim addressable fire alarm devices have been tested and awarded in accordance with EN54-13, the compatibility and integrity assessment of system components.

GENERAL FEATURES

- EN 54-2 and EN 54-4 Certified
- Technician and user friendly; easy to install, programming and operation
- Supports 1-2-4 Loop Capacity
- Supports up to 72 Zone
- Cable distance up to 2,5 Km per loop
- Network up to 16 Control panels via RS-485 by TFC-1209 Network Module
- Easy to read, 240*64 wide LCD graphic display and user-friendly interface
- Display customizes with company logo, contact information, images, etc.
- Same level of accessibility and command sending to all panels via peer-to-peer communication network
- Supports uninterrupted and reliable loop communication by FlashLink communication protocol
- Advanced panel programming and user-friendly system configuration via TFY-1000 software
- Supports 12.000 events of alarms, errors, and warnings
- Supports 2x independent and monitored siren output.
- Detailed voltage/current information of the panel and loop on the LCD display
- Night/Day operation mode
- Multiple language support
- Supports mobile application

PANEL MODELS

TFP-1211 – 1 LOOP INTELLIGENT ADDRESSABLE FIRE ALARM PANEL
TFP-1212 – 2 LOOP INTELLIGENT ADDRESSABLE FIRE ALARM PANEL
TFP-1214 – 4 LOOP INTELLIGENT ADDRESSABLE FIRE ALARM PANEL
TFP-1211R – 1 LOOP INTELLIGENT ADDRESSABLE FIRE ALARM PANEL, RED
TFP-1212R – 2 LOOP INTELLIGENT ADDRESSABLE FIRE ALARM PANEL, RED
TFP-1214R – 4 LOOP INTELLIGENT ADDRESSABLE FIRE ALARM PANEL, RED



TFP-12XX

1-2-4 Loop Intelligent Addressable Fire Alarm Panel Technical Specification



General	TFP-1211	TFP-1212	TFP-1214
Standard	EN54-2/4		
Ethernet (TCP/IP)	Yes		
Multi Language Support	Yes		
Display	240x64 LCD Screen		
Programming	Through Control Panel or Via TFY-1000 Configuration Software		
Loop Information			
Standart Çevrim Sayısı	1	2	4
Number of Devices Supports Per Loop	240	240	127
Total Device Support	240	480	508
Number of Zones		72	
Cable Distance	J-Y(St)Y...Lg 1000mt @ 0,8mm (@250 mA) 2000 mt @ 0,8mm (@75 mA) 2000 mt @ 1,5mm (@250 mA) 2500 mt @ 2mm (@250 mA)		
Network			
Protocol	TdNET (RS-485)		
Max. Panel Network	16 (TFC-1209 Network Card Needed)		
Mechanical			
Dimensions (mm)	385 x 380 x 130 mm		
Body Material and Color Options	Metal Light Grey – TFP-1211 Red – TFP-1211R		
Weight	6,5Kg (Without Battery)		
Environmental			
Operating Temperature	-10°C ~ 55°C		
Humidity	95% RH		
Protection Class	IP30		
Power			
Power	230 / 110 VAC (+%10 / -%15)		
Frequency	50 / 60 Hz (±%5)		
Fuse	6A		
Battery	2 x 12V, 7Ah 2 x 12V, 12Ah		
Imin	130 mA		
ImaxA	1A		
ImaxB	1,5A		
Outputs			
Monitored Sounder Output	2		
Sounder Output	500 mA		
Sounder EOL	4K7Ω		
General Fault Relay	1X NC/NO, 30V – 2Ah		
Alarm Relay	1X NC/NO, 30V – 2Ah		
AUX	1X 24VDC – 500mA		

TFP-211X

1-2-4 Loop Intelligent Addressable
Fire Alarm Panel
With Zone Indicator

TFP-213X

1-2-4 Loop Intelligent Addressable
Fire Alarm Panel With Zone Indicator
Built-in Printer



EN54-2 EN54-4

TFP-21XX series Intelligent Addressable Fire Alarm Panels are uses unique FLASHLINK protocol for loop communication which created by Teknim engineers. Supports 1-2 Loop (240 Device per Loop) and 4 Loop (127 Device per Loop) and supports network up to 16 control panels. It offers stable and reliable solutions for working in harsh environments with the metallic case.

TFP-21XX also supports built-in LAN network connection which allows local or remote configuration / monitoring by Teknim TFY-100 configuration software and Mosaic monitoring software. In addition, panel can be remotely monitor and configure by Teknim Cloud Based Mobile Application.

TFP-21XX comes with an LCD graphic display onboard to easily understand the error and alarm warnings and to make all the settings of the device. Panel supports 72 zones LED indicator to indicate alarms, faults, disabled zones and test conditions.

TFP-213X supports built-in thermal printer for log prints with time stamp.

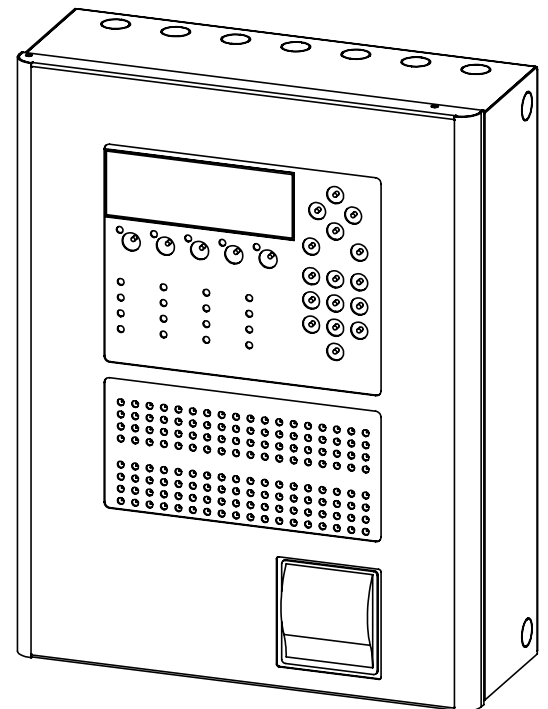
TFP-21XX Fire Alarm Panels are designed in accordance with European Standards which supports EN54-2 and EN54-4 Certificates.

GENERAL SPECIFICATIONS

- EN 54-2 and EN 54-4 Certified
- Supports 72 Zones LED indicators for Fire and Faults
- Supports Built-in Thermal Printer (TFP-213X Models)
- Technician and user friendly; easy to install, programming and operation
- Supports 1-2-4 Loop
- Supports up to 72 Zone
- Cable distance up to 2,5 Km per loop
- Network up to 16 Control panels via RS-485 by TFC-1209 Network Module
- Easy to read, 240*64 wide LCD graphic display and user-friendly interface
- Display customizes with company logo, contact information, images, etc.
- Same level of accessibility and command sending to all panels via peer-to-peer communication network
- Supports uninterrupted and reliable loop communication by unique FlashLink communication protocol
- Advanced panel programming and user-friendly system configuration via TFY-1000 software
- Supports 12.000 events of alarms, errors, and warnings
- Supports 4x independent and monitored siren output.
- Detailed voltage/current information of the panel and loop on the LCD display
- Night/Day operation mode
- Multiple language support
- Supports Mobile Application

PANEL MODELS

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-211X

1-2-4 Loop Intelligent Addressable
Fire Alarm Panel
With Zone Indicator

TFP-213X

1-2-4 Loop Intelligent Addressable
Fire Alarm Panel With Zone Indicator
Built-in Printer



General	TFP-2111	TFP-2112	TFP-2114	TFP-2131	TFP-2132	TFP-2134
Standard	EN54-2, EN54-4					
Ethernet (TCP/IP)	Yes (Onboard)					
Multi Language Support	Yes					
Display	240x64 LCD Screen					
Zone Indicator	72 Zone LED Indicator					
Printer	-	-	-	Thermal Printer	Thermal Printer	Thermal Printer
Loop Information						
Standart Çevrim Sayısı	1	2	4	1	2	4
Number of Devices Supports Per Loop	240	240	127	240	240	127
Total Device Support	240	480	508	240	480	508
Number of Zones	72					
Cable Distance	J-Y(St)Y...Lg 1000mt @ 0,8mm (@250 mA) 2000 mt @ 0,8mm (@75 mA) 2000 mt @ 1,5mm (@250 mA) 2500 mt @ 2mm (@250 mA)					
Network						
Protocol	TdNET (RS-485)					
Max. Panel Network	16 (TFC-1209 Network Card Needed)					
Mechanical						
Dimensions (mm)	485 x 387 x 145 mm					
Body Material and Color Options	Metal Light Grey – TFP-21XX Red – TFP-21XXR					
Weight	8,4Kg (W/O Bat.)	8,4Kg (W/O Bat.)	8,4Kg (W/O Bat.)	9,95Kg (W/O Bat.)	9,95Kg (W/O Bat.)	9,95Kg (W/O Bat.)
Environmental						
Operating Temperature	-10°C ~ 55°C					
Humidity	95% RH					
Protection Class	IP30					
Power						
Power	230 / 110 VAC (+%10 / -%15)					
Frequency	50 / 60 Hz (±%5)					
Fuse	6A					
Battery	2 x 12V, 7Ah 2 x 12V, 12Ah					
Imin	130 mA	180 mA	280 mA	130 mA	180 mA	280 mA
ImaxA	1A					
ImaxB	1,5A					
Outputs						
Monitored Sounder Output	4X 24VDC					
Sounder Output	500 mA					
Sounder EOL	4K7Ω					
General Fault Relay	1X NC/NO, 30V – 2Ah					
Alarm Relay	1X NC/NO, 30V – 2Ah					
AUX	1X 24VDC – 500mA					
Programmable Aux (PAUX)	1X 24VDC – 500mA					
Programmable Relay (PRelay)	1X NO/NC Dry Contact 30V, 2A					

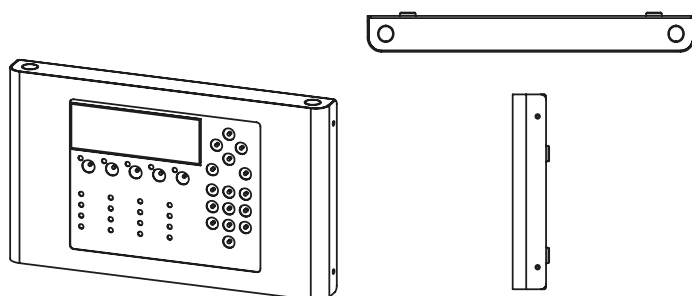
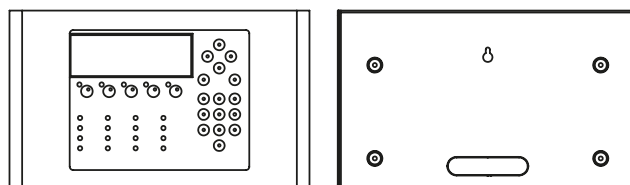


Teknim TFP-1240 repeater panel is developed to monitor and intervene fire detection systems from different points at large and medium scale enterprises. It can be connected approximately up to 1.000 mt distance from main panel via RS-485 communication layer.

Slim and aesthetic design fits into any office environment, guard kiosk, reception desk etc. Power is supplied directly from the panel without an external power supply. All features provided on the main panel are also available on the repeater panel. All 72 zones on the loop are displayed on LCD screen of TFP-1240 repeater pane

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
- Robust metallic body, stylish design



Technical Specifications

TFP-1240

Main Supply Voltage	24±4 VDC
Maximum Consumption	0,15A @24 VDC
Cable Type and Distance	J-Y (ST) Y-L9 1000 mt 0,8 mm
Mechanical	
Dimensions (mm)	230 x 386 x 40 mm
Weight	2,6Kg
Body material and color	Metal Light Grey – TFP-1240 Red – TFP-1240R
Environmental	
Operating Temperature	-10C ~ 55C
Humidity	95% RH
Protection Class	IP30

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 if there will be a short cut at the cable between control panels.

In case system load needs to be distributed or in facilities with multiple buildings, it can inter-connect all panels to build a ring or bus network and enable operation and control of the entire system as a single panel.

GENERAL FEATURES

- Supports Class A and Class B connections
- Supports Built-in Isolator
- Ensures a reliable and logic data transmission via Ring and Bus topologies.
- Uses RS485 serial communication and data transmission speed is 230.400bps
- Same level of accessibility and command sending to all panels via peer-to-peer communication network
- Uses TdNET protocol developed by Teknim
- In case of network board failure, it by-passes board input and output connections and ensures network line continuity
- Network connection up to 16 panels
- Enables monitoring of all networked panels from any panel in the system
- Provides visual notification via error LEDs indicating open circuit direction or link LED indicating connection status.
- It can be easily plugged to main board by connector and frame connection and operated

TdNET® NETWORK COMMUNICATION PROTOCOL

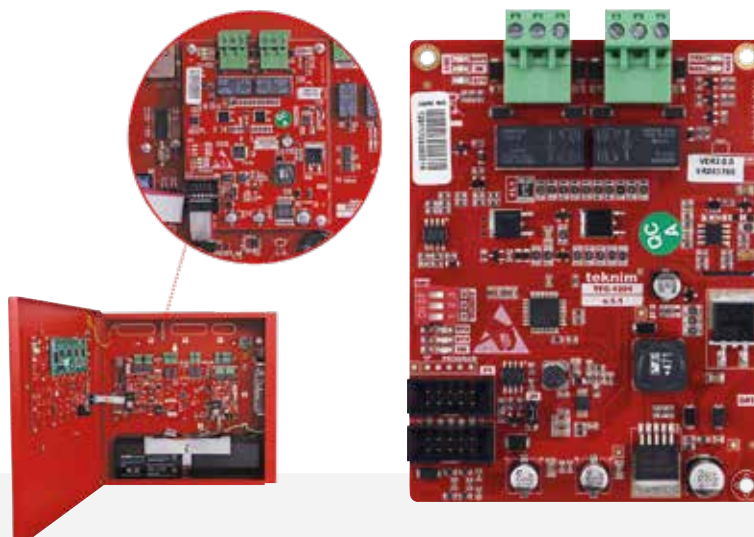
TdNET is a strong and reliable communication protocol developed to build a network among all products of Teknim. TdNET protocol defines Network and Data Link layers according to OSI (Open Systems Interconnection) defined by International Standard Organization.

TdNET Protocol takes advantage of RS-485's differential feature and performs CRC control in order to prevent faulty data transmission. Thus, data transmission is both reliable and capable of eliminating disturbances and high frequency effects that may interrupt communication

Technical Specifications	TFC-1209
Protocol	TdNET (RS-485)
Maximum Cable Distance	1.000 mt
Maximum Control Panel Connection	16
Built-in Isolator	Yes
Average Consumption	50mA (@24V)
Dimensions (mm)	61 x 110 mm
Operating Temperature	-10°C ~ 55°C
Humidity	95% RH

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 end units.

TFC-1201 supports Class A and Class B connections. This enables ease of installation and operation. (Be aware that if more than 32 end units are used in Class B connection structure, system will not be covered EN54-2 standard)

It is used increasing loop quantities to 2 loops of TFP-1211 Control Panel.

GENERAL FEATURES

- Supports FlashLink protocol
- 240 device capacity
- Internal short-circuit protection
- Class A and Class B connection support
- Switch structure for loop board addressing
- Configuration from the control panel or PC software

Technical Specifications

TFC-1201

Power	18V(min) – 30V(max)
Average Consumption	65mA (@24V)
Loop Protocol	Flashlink
Supported Device	240
Loop Power	32V
Loop Current	250mA
Humidity	95% RH
Operating Temperature	-10°C ~ 55°C (14°F ~ 131°F)
Dimensions (mm)	84mm x 110mm

FlashLink® DATA COMMUNICATION PROTOCOL

FlashLink is an uninterrupted and reliable communication protocol developed by Teknim which is used data communication between loop board and devices over power line. Protocol supports multiple frame structures. This enables flexible and fast transmission of data.

Fast data speed enables a quick scanning time. Emergency package feature enables detection of fire in less than 1,5 seconds.



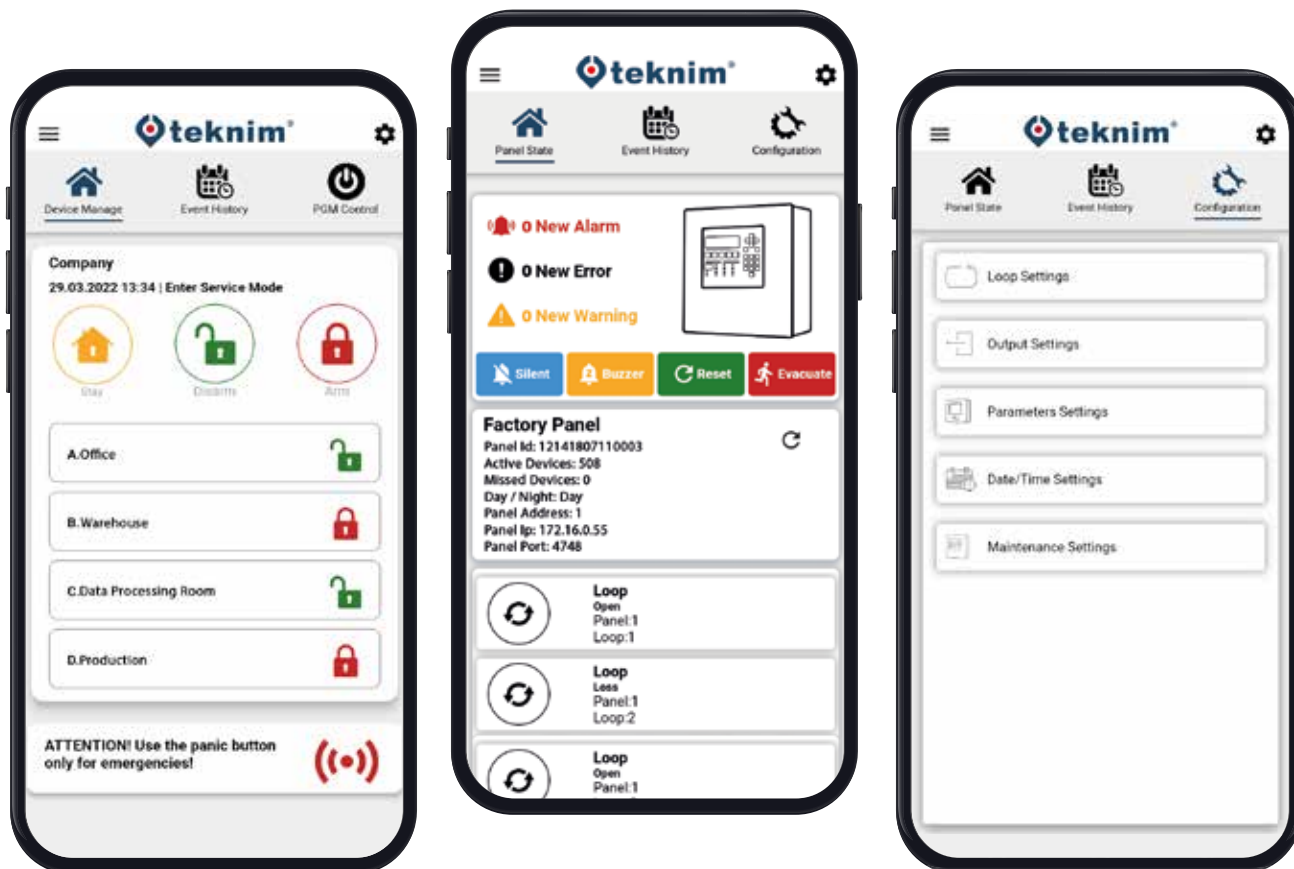
TFCM-1801 device programming module is developed to define address for addressable devices such as detectors, mcp, input-output modules or to read defined address and firmware version of the devices. It is supplied from 9V (6LR61) battery.

Practical menu interface and controls enable ease of use.

GENERAL FEATURES

- It can be connected to all Teknim addressable devices regardless direction of connector
- Enables fast-easy programming
- 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
- It is used to write/read address, change existing addresses, read versions, read serial numbers and production dates.

Technical Specifications	TFCM-1801
Power	9V (6LR61)
Weight	140g (Battery Included)
Dimensions (mm)	70mmx135mm
Operating Temperature	-10°C ~ 55°C
Humidity	95% RH
Protection Class	IP30



Teknim cloud-based mobile application offers a perfect solution for remote control and monitoring of Teknim addressable fire panels through mobile application. Thanks to the built-in TCP-IP port, Teknim addressable panels can be connected to the cloud without any additional cost, only by providing the internet.

For cloud connection of your fire panel, it is sufficient to create a cloud user through the mobile application and match your panel with your account by scanning the QR code on the panel.

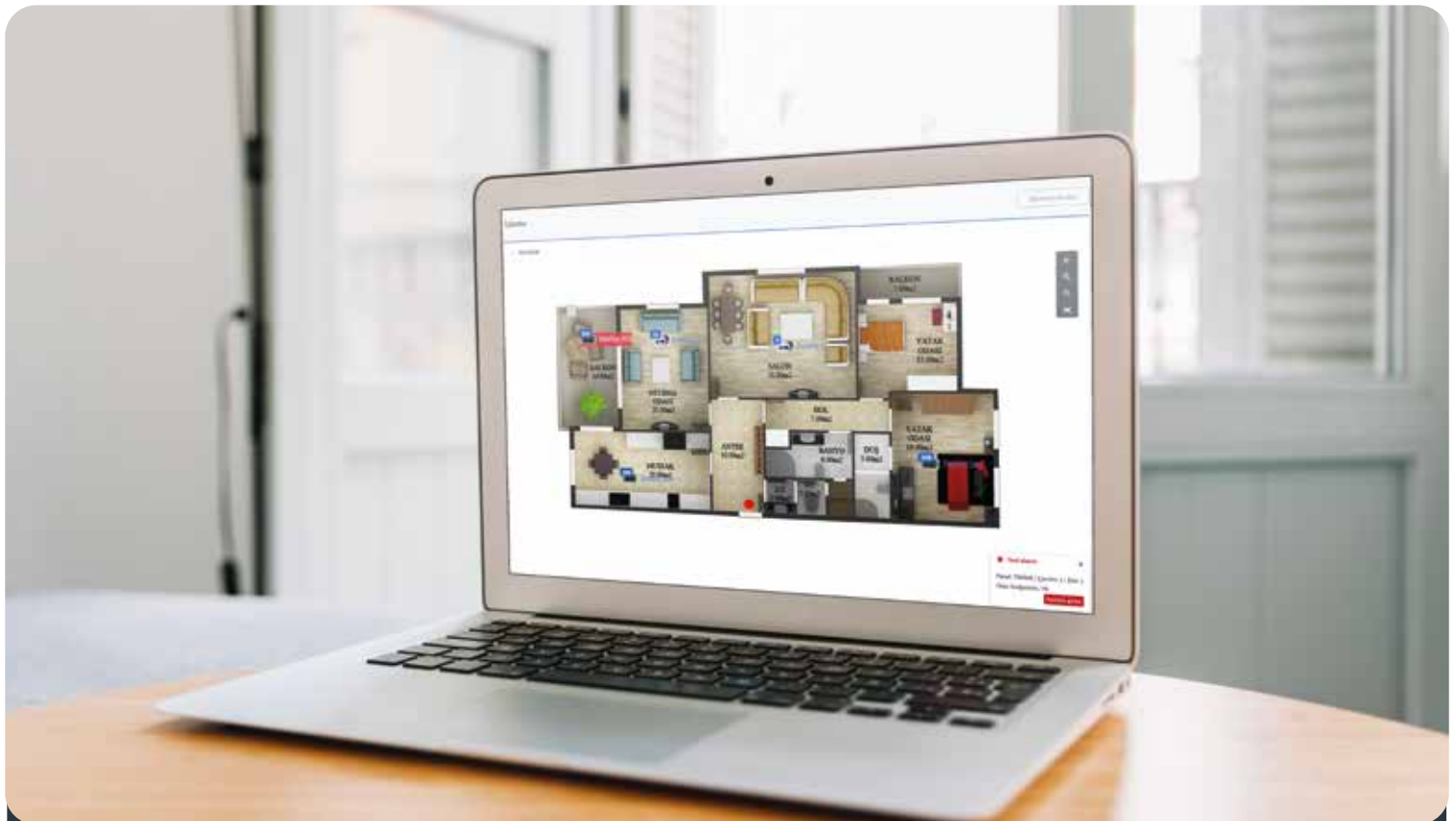
By adding your fire panel to the mobile application, you can easily perform the following operations.

GENERAL FEATURES

- Getting online status of the panel
- Sending Buzzer, Reset, Silence, Evacuate commands to Control panel
- Accessing all Event List with filter options
- Receive desired event notifications
- Sharing your panel with other cloud users
- Dark Mode / Light Mode Options
- A certain level of configuration options for installers
 - Loop Settings
 - Output Settings
 - Parameter Settings
 - Date/Time Settings
 - Maintenance Settings

Teknim Mobile application can be downloaded free of charge from the App Store and Android Market.



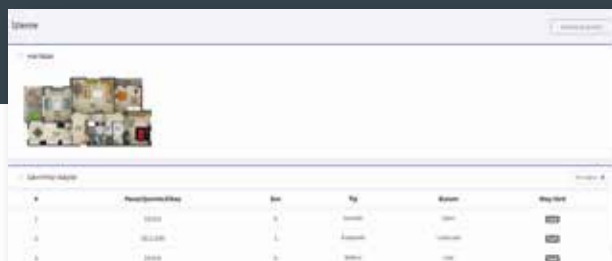


Mosaic-2000 is a web based graphical monitoring software for Teknim addressable fire alarm system. It supports adding multiple maps for projects and providing adding all devices on maps according to project needs.

It has easy to use interface and supports pop-up visual and sound warnings during alarms and warnings. It also supports to send commands to control panels such as reset, silence, or evacuate.

GENERAL FEATURES

- Supports up to 16 Control Panel at the same time
- Graphic interface
- POP-UP alarm information
- Supports API Integration for 3rd party software
- Transition between maps in case of multiple fire alarms and graphical viewing of event location
- Remote command sending for silence, evacuation, reset
- Multiple map support (.png, .bmp and .jpeg)
- Display/save unlimited number of event logs by filtering (pdf)
- Multi-language support



TFY-1000

Teknim Addressable Fire Alarm
Configuration Software

ARC CONNECTION

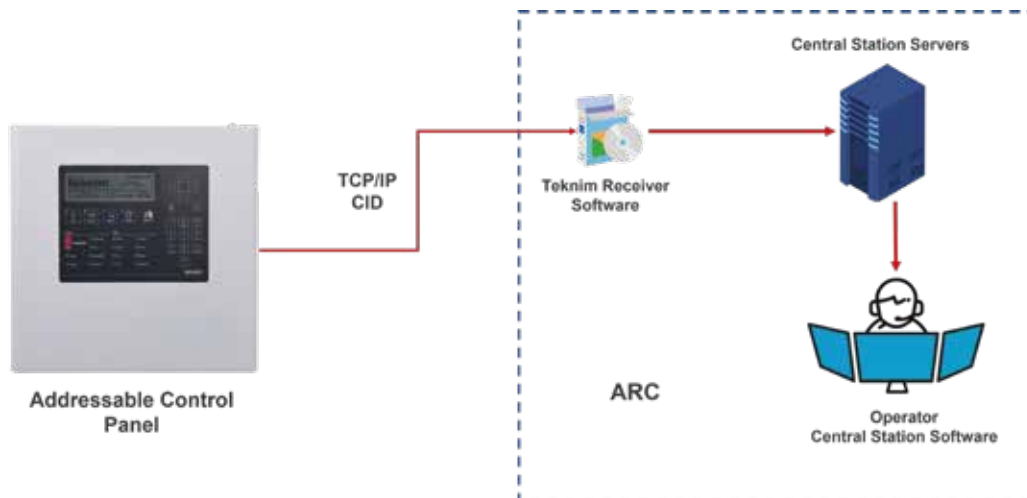
Teknim Addressable Fire Alarm Panel
ARC Connection



TFY-1000 is a configuration software for all Teknim addressable control panels. It has simple interface structure and drag-drop feature makes the software easy to use. It saves installers from significant time losses during configuration. In addition to the functional features on the control panel, the software has additional features of creating scenario, logo upload and back-up of event history. Communication between TFP-12XX panel and software is provided by TCP/IP protocol. All Teknim addressable fire alarm panels support onboard ethernet interface.

GENERAL FEATURES

- Offline project design
- Project saving and editing
- Add-remove devices to/from the system (drag-drop feature)
- TCP/IP communication
- Scenario creation (drag-drop feature)
- Event log view and back-up (PDF Export)
- Network support (max. 16 panels)
- Single panel or entire network system configuration
- Company/Installer Contact information and logo upload
- Help Window with detailed explanation in each section
- Multi-language support



Teknim addressable fire alarm panels can be integrated with alarm receiving centers over the internet and can transmit all alarm, fault and warning information.

Thanks to the built-in TCP/IP port in the panel, it is possible to connect to all ARCs by simply providing an internet connection to the panel without any additional cost.

TFD-1251

Intelligent Addressable Smoke
Detector with Built-in Isolator

TFD-1250

Intelligent Addressable
Smoke Detector



EN54-7 EN54-17 EN54-13

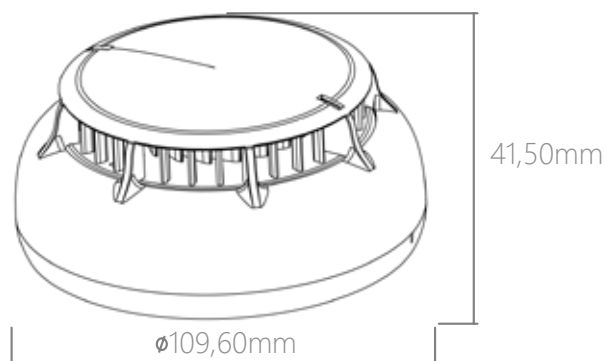
TFD-1251 and TFD-1250 Detectors are designed to be connected two-wired loop circuit carrying both data and power. It uses FlashLink communication protocol to communicate Teknim Addressable control panels. Detector supports optical sensing technology by using a unique smoke chamber perfected by Teknim, through long term fluid mechanics and optic refraction tests.

It has a series of algorithms to minimize faulty detections and provide pollution warning. Sensitivity levels are adjustable through control panel or configuration software. Smoke chamber can be easily removed for cleaning in case of possible pollutions in excessively dusty environments.

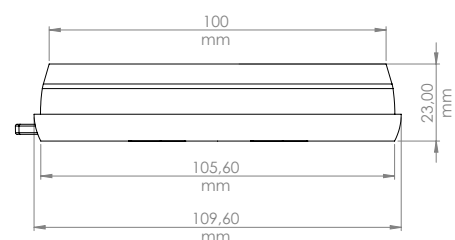
Detector supports built-in isolator version (TFD-1251) to protect the loop line from short-circuit.

GENERAL FEATURES

- EN54-7 and EN54-17 Certified
- Detects smoke particles in the environment via light scatter principle
- Supports built-in Isolator (TFD-1251)
- Supports 2x LED indicators enables 360° view
- Supports Three different colors of indication by LEDs to individually display Status, Fire Alarm, Short-Circuit and Pollution (Blink Blue/Red/Fixed Blue/Yellow)
- 3 Different detection sensitivities adjustable from the control panel and configuration software (High, Medium, Low)
- Special software algorithms to eliminate sudden dust, smoke, etc. which may cause faulty alarms
- Adaptive protection preventing faulty alarms by sampling the environment continuously
- Advanced pollution algorithm that continuously measures pollution level and warns the user from detector and panel
- Supports remote indicator connection terminals
- Easy to clean smoke chamber
- Aesthetic and elegant design fits any environment
- Optional Label apparatus can be installed to the bottom of detector base view detector address from distance



Technical Specifications	TFD-1251	TFD-1250
Standard	EN 54-17 / EN54-7	EN54-7
Operating Type	Optical Sensing	
Built-in Isolator	Yes	No
Detection Level	H:0,12 – m:0,15 – l:0,18 dB/m	
Power	18-32VDC	
Average Consumption	80µA@32V	
Alarm Consumption	3mA	
Indicator Current	10mA (2K2 Resistor)	
Starting Time	15sec	
Weight (Include Base / Not)	183gr / 125gr	
Dimensions (mm)	Ø110, h42	
Body Material and Color	ABS Plastic – White	
Alarm Indicator LED	RED	
Status LED	Blue	
Isolator LED	Yellow	No
Operating Temperature	-10°C ~ 55°C	
Humidity	95% RH	
Protection Class	IP30	



TFD-1261

Intelligent Addressable Heat Detector (Fixed Heat and Heat Rise) with Built-in Isolator

TFD-1260

Intelligent Addressable Heat Detector (Fixed Heat and Heat Rise)



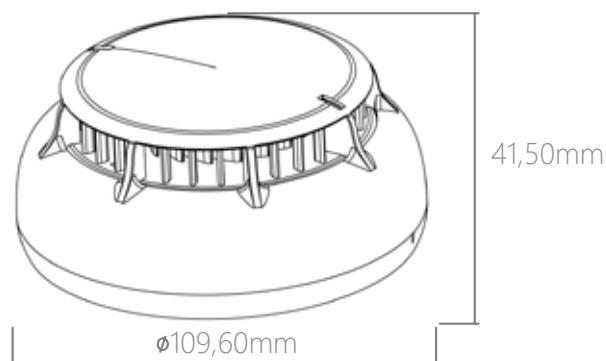
EN54-5 EN54-17 EN54-13

TFD-1261 and TFD-1260 Detectors uses heat detection technologies to sense fire and it can be connected two-wired loop circuit carrying both data and power. It uses FlashLink communication protocol to communicate Teknim Addressable control panels. It has a series of algorithms to minimize faulty detections.

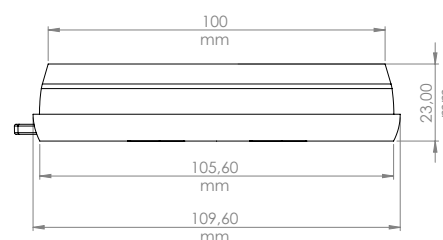
Detector can work as Fixed Heat or Heat Rise which can be selected from control panel or configuration software and complies with EN54-5 and EN54-17.

GENERAL FEATURES

- EN54-5 and EN54-17 Certified
- Supports 2X NTC to ensure more accurate and precise temperature measurement
- Supports Built-in Isolator (TFD-1261)
- Supports A2S or A2R Detection
- Supports 2x LED indicators enabling 360° view
- Supports three different colors of indication by LEDs to individually display Status, Fire Alarm, Short-Circuit and Pollution (Blink Blue/Red/Fixed Blue/Yellow)
- Supports remote indicator connection terminals
- Aesthetic and elegant design fits any environment
- Optional Label apparatus can be installed to the bottom of detector base view detector address from distance



Technical Specifications	TFD-1261	TFD-1260
Standard	EN 54-17 / EN54-5	EN54-5
Operating Type	A2S, A2R	
Built-in Isolator	Yes	No
Power	18-32VDC	
Average Consumption	80µA@32V	
Alarm Consumption	3mA	
Indicator Current	10mA	
Weight (Include Base / Not)	183gr / 125gr	
Dimensions (mm)	Ø110, h42	
Body Material and Color	ABS Plastic – White	
Alarm Indicator LED	RED	
Status LED	Blue	
Isolator LED	Yellow	No
Operating Temperature	-10°C ~ 70°C	
Humidity	95% RH	
Protection Class	IP30	



TFD-1271

Intelligent Addressable Multi
Detector (Optical Smoke and Heat)
with Built-in Isolator

TFD-1270

Intelligent Addressable Multi
Detector (Optical Smoke and Heat)



EN54-5 EN54-7 EN54-17 EN54-13

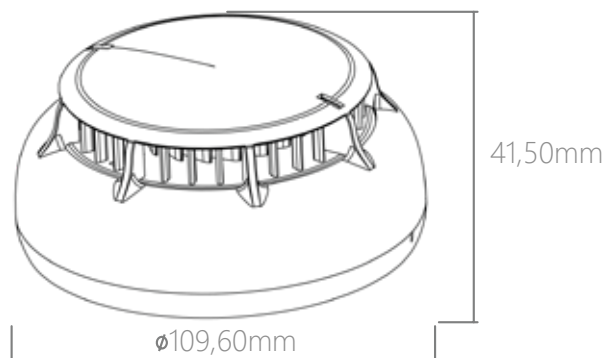
TFD-1271 and TFD-1270 detectors are uses combination of optical and heat detection technologies to sense fire and it can be connect-
ed two-wired loop circuit carrying both data and power. It uses FlashLink communication protocol to communicate Teknim Addressa-
ble control panels.

It has a series of algorithms to minimize faulty detections and provide pollution warning. Sensitivity levels are adjustable through
control panel or configuration software. Smoke chamber can be easily removed for cleaning in case of possible pollutions in excessive-
ly dusty environments.

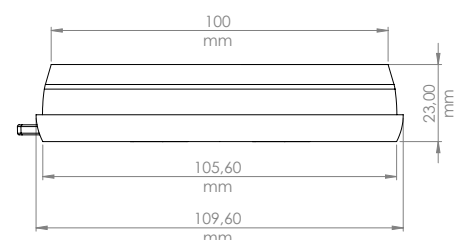
The operating logic of the detector can be selected from the control panel or software. Detector can be work as "Only Smoke", "Only
Heat", "Smoke and Heat", "Smoke or Heat".

GENERAL FEATURES

- EN54-7, EN54-5 and EN54-17 Certified
- Detector supports optical smoke and heat sensing technologies
- Detector can be operating in 4 different types. Only Smoke, Only
Heat, Smoke and Heat, Smoke or Heat
- Supports built-in Isolator (TFD-1271)
- Supports 2x LED indicators enables 360° view
- Supports Three different colors of indication by LEDs to individu-
ally display Status, Fire Alarm, Short-Circuit and Pollution (Blink
Blue/Red/Fixed Blue/Yellow)
- 3 different detection sensitivities adjustable from the control
panel and configuration software (High, Medium, Low)
- Special software algorithms to eliminate sudden dust, smoke, etc.
which may cause faulty alarms
- Adaptive protection preventing faulty alarms by sampling the
environment continuously
- Advanced pollution algorithm that continuously measures
pollution level and warns the user from detector and panel
- Supports remote indicator connection terminals
- Easy to clean smoke chamber
- Aesthetic and elegant design fits any environment
- Optional Label apparatus can be installed to the bottom of
detector base view detector address from distance



Technical Specifications	TFD-1271	TFD-1270
Standard	EN 54-5 / 7 / 17	EN54-5 / 7
Operating Type	Optical / Heat	
Built-in Isolator	Yes	No
Detection Level	H:0,12 – m:0,15 – I:0,18 dB/m A2S (Between 55°C-70°C)	
Power	18-32VDC	
Average Consumption	80µA@32V	
Alarm Consumption	3mA	
Indicator Current	10mA	
Starting Time	15sec	
Weight (Include Base / Not)	183gr / 125gr	
Dimensions (mm)	Ø110, h:42 mm	
Body Material and Color	ABS Plastic – White	
Alarm Indicator LED	RED	
Status LED	Blue	
Isolator LED	Yellow	No
Operating Temperature	-10°C ~ 70°C	
Humidity	95% RH	
Protection Class	IP30	



TFA-1196
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.

Technical Specifications	TFA-1196
LED	Red
Light	RED - 150mcd
Power	10-32VDC
Alarm Consumption	2,2mA@24VDC
Weight	42gr
Dimensions (mm)	85 x 85 x 21mm
Body Material and Color	ABS Plastic – White
Operating Temperature	-10°C ~ +85°C
Humidity	95% RH
Protection Class	IP30

TFA-0120
Detector Base



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

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.



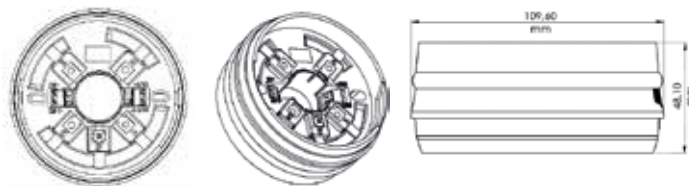
TFM-128X bases can be used with Teknim addressable detectors (TFD-12XX). TFM-128X bases can be in a formed such as isolator, buzzer and flasher which design to meet all needs of warning for the detectors.

GENERAL FEATURES

- LED indicators enabling 360° view
- Two different colors of indication by LEDs to individually display shortcut and alarm conditions (Yellow/Red)
- 75dB sound level
- Different type of base options
- Label tag slot

TYPES

- TFM-1281 Base with Buzzer
- TFM-1282 Base with Flasher
- TFM-1283 Base with Isolator
- TFM-1287 Base with Buzzer and Flasher



Technical Specifications	TFM-1281	TFM-1282	TFM-1283	TFM-1287
Operation	Buzzer	Flasher	Izolator	Buzzer + Flasher
LED Indicator	No	Yes	Yes	Yes
Buzzer	Yes	No	No	Yes
Sound Level	75dB	-	-	75dB
Flasher	No	Yes	No	Yes
Power	15-32V	15-32V	15-32V	15-32V
Standby Consumption	15µA	15µA	15µA	15µA
Alarm Consumption	2mA	4mA	15µA	6mA
Weight	120gr	120gr	120gr	120gr
Dimensions (mm)	Ø109,5 h48	Ø109,5 h48	Ø109,5 h48	Ø109,5 h48
Body Material and Color	ABS Plastic – White	ABS Plastic – White	ABS Plastic – White	ABS Plastic – White
Operating Temperature	-10°C ~ +70°C	-10°C ~ +70°C	-10°C ~ +70°C	-10°C ~ +70°C
Humidity	95% RH	95% RH	95% RH	95% RH

TFD-1170

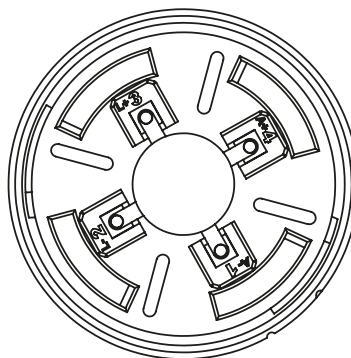
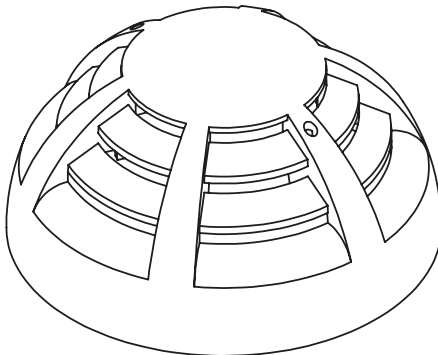
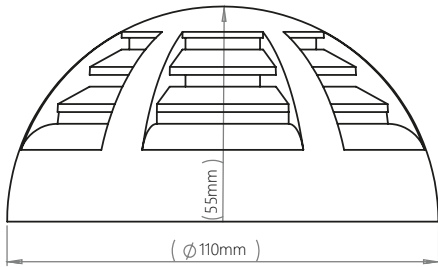
Intelligent Addressable Natural Gas Detector



TFD-1170 is a natural gas detector which can be connected to Teknim addressable fire alarm systems. It is equipped with an 85dB on-board buzzer for audio warning, and with red/ yellow/ green colored LED indicators for visual warning. Alarm detection and filtering algorithm directly transmits precise and reliable alarm information to the control panel. TFD-1170 addressable natural gas detector is suitable for ceiling and wall mounting. Detector also provides a test button on it to perform tests for all visual and audio warnings.

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



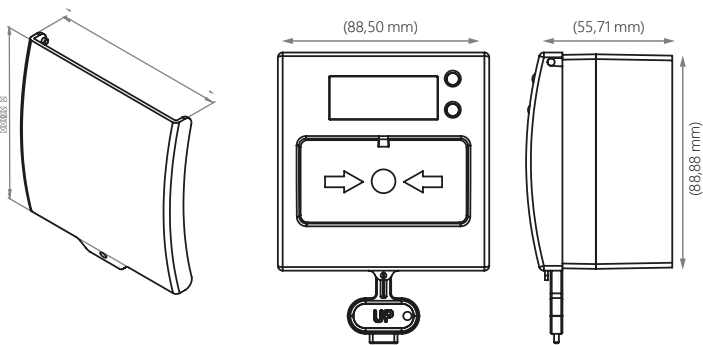
Technical Specifications	TFD-1170
Standard	TS-EN 50184-1
Operating Type	MQ5 Gas Sensor
Device Type	A
Gaz Algılama Seviyesi	%10 LEL
Sound Indicator	Continuous: Gas Alarm Intermittent: Sensor Fault
Sound Level	≥85dB (at 1mt)
LED Indicator	Alarm: RED ,Fault: Yellow Normal: Green
Test Button	Yes
Power	18–32 VDC
Average Consumption	<50uA
Alarm Consumption	<60uA
External Power	12-30 VDC
External Powered Consumption	50mA @24VDC
External Powered Alarm Consumption	60mA @24VDC
Start Time	3 min.
Dimensions (mm)	Ø110, h50
Body Material and Color	ABS Plastic – White
Operating Temperature	-10°C ~ +55°C
Humidity	95% RH
Protection Class	IPX2D

TFB-1166
Intelligent Addressable Manual Call Point with
Built-in Isolator

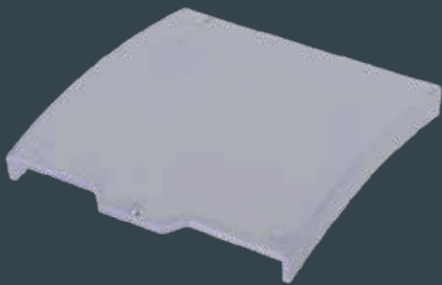


EN54-11 EN54-17 EN54-13

TFB-1166 is an addressable manual call point with built-in isolator, designed and produced comply with EN54-11 and EN54-17. It is equipped with dual LEDs to indicate local alarms (Red Colored LED) and short-circuit alert (Yellow Colored LED). TFB-1166 MCP can be used with TFP-12XX Addressable control panels through Flash Link protocol. It has resettable operation structure which can be reset by using a special plastic key. Suitable for flush and surface mounting. An optional transparent protection cover can be installed to avoid false alarms by accidental pressing.

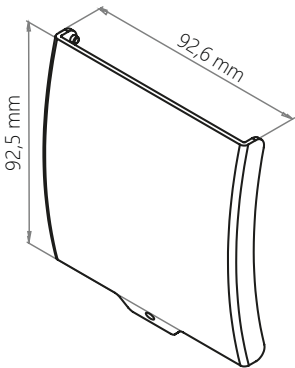


TFA-0165
Transparent Protection Cover



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

Technical Specifications	TFB-1166
Standard	EN 54-11/17
Operating Type	A Type Manual
Resettable	Yes
Power	10-32VDC
Standby Consumption	1,5mA.
Alarm Consumption	6mA.
Shortcut Isolator Consumption	8mA.
Dimensions (mm)	86 x 55 x 88 mm
Weight	145gr
Body Material and Color	RAL3001 RED
Alarm Indicator LED	RED
Status LED	Blue
Isolator LED	Yellow
Type of Fragile Element	Resettable Polycarbonate
Operating Temperature	-10°C ~ 60°C
Humidity	≤93% RH at +40°C
Protection Class	IP30



TFS-1181

Intelligent Addressable Sounder with Built-in Isolator



EN54-3 **EN54-17** **EN54-13**

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

TFS-1181 has aesthetic design and low power consumption and are suitable for use with all Teknim addressable fire alarm control panels.

GENERAL FEATURES

- EN54-3 and EN54-17 Certified
- Built-in Isolator
- 97dB Sound level
- 42 Different Sound Tone
- 3 Different Sound Level Options
- IP21C protection class
- Red/White, transparent UL94 non-flammable poly-carbonate plastic frame

Technical Specifications

TFS-1181

Standard	EN54-3 and EN54-17
Power	15VDC – 32VDC (Norm.27VDC)
Average Consumption	~90µA (@ 27VDC)
Alarm Consumption	Min.: 5.16mA, Norm.: 7.86mA, Max.: 11.23mA.
Sounder Type	Type A
Sound Level	Min: 89.4dB / Norm: 94.3dB / Max: 97dB ±2 dB (@27VDC, 1mt)
Usage	Internal
Dimensions (mm)	Ø110, h:55 mm
Weight	27.7gr
Body Material	Red, UL94 anti- flammable ABS plastic
Operating Temperature	-10°C ~ 55°C
Humidity	95% RH
Protection Class	IP21C

TFS-1182R/W

Intelligent Addressable Sounder and Flasher with Built-in Isolator



EN54-3 EN54-23 EN54-17 EN54-13

Teknim TFS-1182 is an internal usage fire alarm sounder with flasher and can connect directly to 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.

TFS-1182 has aesthetic design and low power consumption and are suitable for use with all Teknim addressable fire alarm control panels.

GENERAL FEATURES

- EN54-3, EN54-23 and EN54-17 Certified
- Built-in Isolator
- 97dB Sound level
- 42 Different Sound Tone
- 3 Different Sound Level Options
- 3 Different Flasher Mode
- 3 Different Brightness Mode
- Red/White, transparent UL94 non-flammable poly carbonate plastic frame

Technical Specifications		TFS-1182W/R
Standard	EN54-3, EN54-23 and EN54-17	
Power	15VDC – 32VDC (Norm.27VDC)	
Average Consumption	~90µA (@ 27VDC)	
Alarm Consumption	Min.: 6.74mA, Norm.: 11.06mA, Max.: 15.1mA.	
Sounder Type	Type A	
Sound Level	Min: 89.4dB / Norm: 94.3dB / Max: 97dB ±2 dB (@27VDC, 1mt)	
LED	7 Wide Angle Bright LEDs	
Flasher Coverage	W-2, 4-4	
Usage	Internal	
Dimensions (mm)	Ø110, h:55 mm	
Weight	27.7gr	
Body Material - Color	UL94 anti- flammable ABS plastic RED – TFS-1182R , White – TFS-1182W	
Operating Temperature	-10°C ~ 55°C	
Humidity	95% RH	
Protection Class	IP21C	

TFS-1183R/W

Intelligent Addressable Flasher with Built-in Isolator



EN54-23 EN54-17 EN54-13

Teknim TFS-1183 is an internal usage fire alarm flasher and can connect directly to 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.

TFS-1183 has aesthetic design and low power consumption and are suitable for use with all Teknim addressable fire alarm control panels.

GENERAL FEATURES

- EN54-23 and EN54-17 Certified
- Built-in Isolator
- 3 Different Flasher Mode
- 3 Different Brightness Mode
- White and Red Color Options
- Red/White, transparent UL94 non-flammable poly carbonate plastic frame

Technical Specifications	TFS-1183W/R
Standard	EN54-23, and EN54-17
Power	15VDC – 32VDC (Norm.27VDC)
Average Consumption	~90µA (@ 27VDC)
Alarm Consumption	Min.: 5.16mA, Norm.: 7.86mA, Max.: 11.23mA.
LED	7 Wide Angle Bright LEDs
Flasher Coverage	W-2, 4-4
Usage	Internal
Dimensions (mm)	Ø110, h:55 mm
Weight	27.7gr
Body Material - Color	UL94 anti- flammable ABS plastic RED – TFS-1182R White – TFS-1182W
Operating Temperature	-10°C ~ 55°C
Humidity	95% RH
Protection Class	IP21C

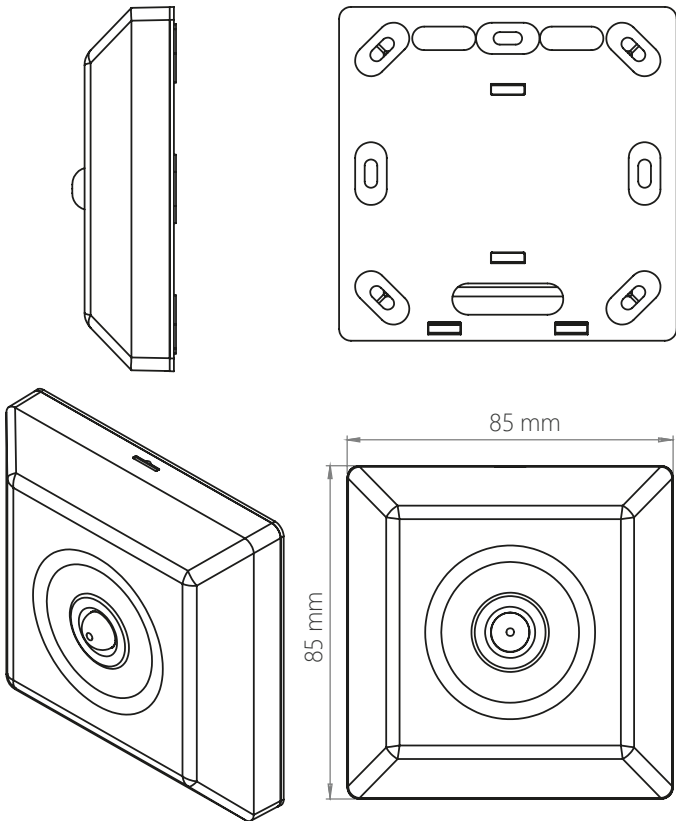
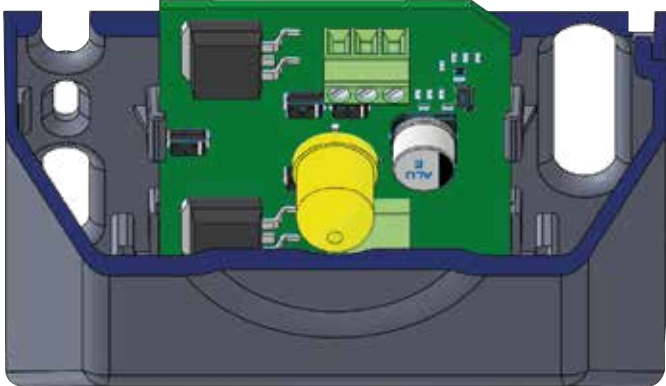
TFM-1990
Loop Isolator



TFM-1990 is used on loop line to protect the system in case of any short-circuit on the line. It does not consume any address in the system.



Technical Specifications	TFM-1990
LED	Yellow
Light	150mcd
Power	10-32VDC
Standby Consumption	850µA.
Alarm Consumption	1,4mA.
Dimensions (mm)	85 x 85 x 21 mm
Weight	46gr
Body Material and Color	ABS Plastic – White
Operating Temperature	-10°C ~ +55°C
Humidity	0-95% RH
Protection Class	IP30



TFM-1661

Intelligent Addressable Zone and Siren Module with Built-in Isolator

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



TFM-1661 Conventional Zone and Siren Module is designed to be used with TFP-12xx series 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 siren output. The device is supports built-in isolator to protect the loop line against short circuit.

For the conventional input status, the user can choose between the event types "Alarm, Evacuation, Reset, Silent, Fault, None". It is also possible to select from "Siren, General Siren, General Fault, Zonal Alarm, Zonal Siren, Zonal Fault, None" event types for siren output. The module has 24V external power supply input. The external supply is used for the supply of conventional devices and the siren outputs. The external supply is supervised for interruptions on power.

GENERAL FEATURES

- EN54-18 and EN54-17 Certified
- 32 detectors per zone and unlimited buttons
- Built-in Isolator
- 4 LED indicators



Technical Specifications		TFM-1661
Standard		EN 54-17 / 18
Power		18-32 VDC
Standby Consumption		150uA
Alarm Consumption		1,5 mA
External Power		22V- 26VDC
Standby Consumption from Ext Power		20mA @24V + Zone and Sounder Consumption
Alarm Consumption from Ext Power		40mA @24V + Zone and Sounder Consumption
Number of Detector Support		32
Cable Resistance		40Ω
Dimensions (mm)		100 x 66 x 33,5mm
Body Material and Color		ABS Plastic Light Grey
Operating Temperature		-10°C ~ 55°C
Humidity		95% RH

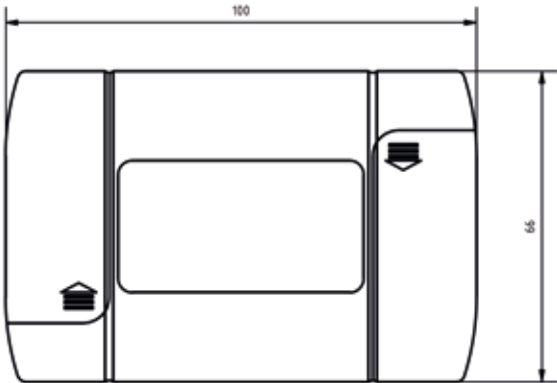
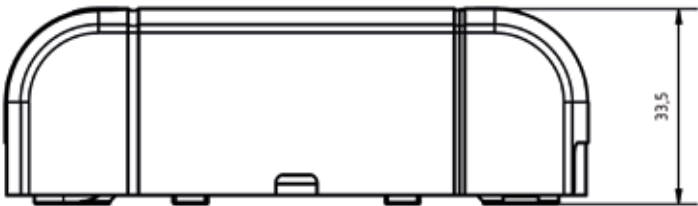


EN54-18 EN54-17 EN54-13

TFM-1431 used with TFP-12xx series addressable fire alarm panels and supports single input and output. The device is also supporting built-in isolator to protect the loop line against short circuit.



Technical Specifications		TFD-1431
Standard		EN 54-17 / 18
Power		15-32VDC
Standby Consumption		180µA
Alarm Consumption		500µA
Isolator		Yes
Terminals		1x Monitored Input , 1x Monitored Output
Dimensions (mm)		100 x 66 x 33,5mm
Body Material and Color		ABS Plastic Light Grey
Operating Temperature		-10°C ~ 55°C
Humidity		95% RH
Protection Class		IP30



TFM-1XXX

Intelligent Addressable Input Module with Built-in Isolator



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

TFM-1011 supports single monitored input and can be used with TFP-12xx series addressable fire alarm panels. The device is also supporting built-in isolator to protect the loop line against short circuit.

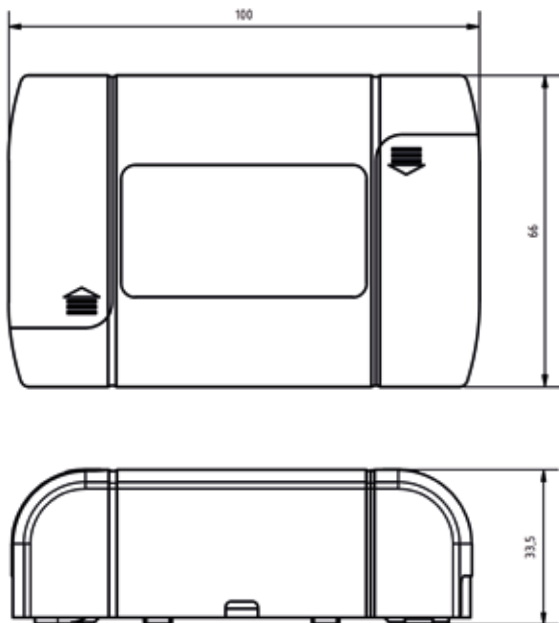
TFM-1221 supports single monitored input and single output which supports external power connection and allows to connect such as conventional sounders etc. It can be used with TFP-12xx series addressable fire alarm panels. The device is also supporting built-in isolator to protect the loop line against short circuit.



PRODUCT TYPES

TFM-1011 Intelligent Addressable Input Module with Built-in Isolator

TFM-1221 Intelligent Addressable I/O Module with Built-in Isolator



Technical Specifications	TFM-1011	TFM-1221
Standard	EN54-18 and EN54-17	EN54-18 and EN54-17
Power	15-32VDC	15-32VDC
Standby Consumption	180µA	180µA
Alarm Consumption	500µA	500µA
Isolator	Yes	Yes
Terminals	1x Monitored Input	1x Monitored Input 1x Monitored Output (External Power)
Cable Resistance	40Ω	40Ω
Dimensions (mm)	100 x 66 x 33,5mm	100 x 66 x 33,5mm
Body Material and Color	ABS Plastic Light Grey	ABS Plastic Light Grey
Operating Temperature	-10°C ~ 55°C	-10°C ~ 55°C
Humidity	95% RH	95% RH
Protection Class	IP30	IP30