

# INTELLIGENT ADDRESSABLE FIRE ALARM SYSTEM



## TFP-1211

1 Loop Intelligent Addressable Fire Alarm Panel



TFP-1211 Intelligent Addressable Fire Alarm Panel uses unique FLASHLINK protocol for loop communication which was created by Teknim engineers. Supports 1 loop, 240 devices and network up to 16 control panels. It offers stable and reliable solutions for working in harsh environments.

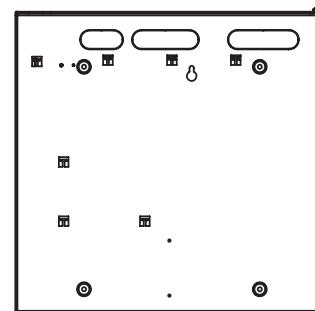
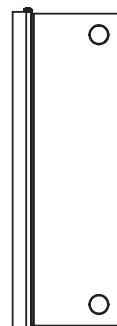
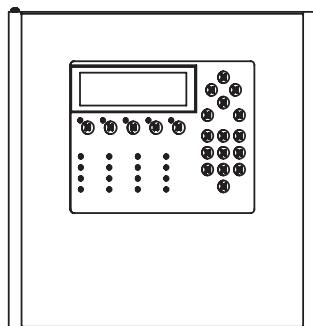
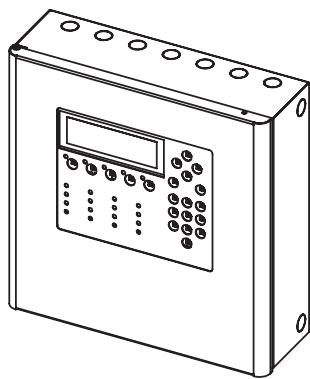
TFP-1211 comes with an LCD graphic display onboard to easily understand the error and alarm warnings and to make all the settings of the device. TFP-1211 also supports built-in LAN network connection which allows local or remote configuration / monitoring by Teknim TFY-100 configuration software and Mosaic monitoring software.

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



**GENERAL FEATURES**

- EN 54-2 and EN 54-4 Certified
- Technician and user friendly; easy to install, programming and operation
- Supports 1 Loop Capacity
- Supports 240 Devices per 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
- Up to 3.480 devices and 1.152 zones by network (Using optional TFC-1209 Network module)
- Easy to read, 240\*64 wide LCD graphic display and user-friendly interface
- Display customize 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 Repeater panels TFP-1240
- Supports 12.000 events of alarms, errors, and warnings
- Supports 2x independent and monitored siren output. Connection up to 50 conventional sirens without external supply. (If used with Teknim TFS-3192 siren).
- Detailed voltage/current information of the panel and loop on the LCD display
- Night/Day operation mode
- Supports Class A and Class B connections, thus new devices can be easily included in the loop via star connection in mandatory cases required for the Project
- Multiple language support





<b>General</b>		<b>TFP-1211</b>
Standard		EN54-2/4
Ethernet (TCP/IP)		YES (Onboard)
Multiple Language		Yes
Display		240x64 LCD
Programming		Through Control Panel or via TFY-100 Software
<b>Loop Information</b>		
Loop		1
Number of Devices Supports Per Loop		240
Total Device Support		240
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)
<b>Network</b>		
Protocol		TdNET (RS-485)
Max. Panel Network		16 (TFC-1209 Network Card Needed)
<b>Mechanical</b>		
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)
<b>Environmental</b>		
Operating Temperature		-10°C ~ 55°C
Humidity		95% RH
Protection Class		IP30
<b>Power</b>		
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
<b>Outputs</b>		
Monitored Sounder Output		2
Sounder Output		500 mA
Sounder EOL		4KΩ
General Fault Relay		1X NC/NO, 30V – 2Ah
Alarm Relay		1X NC/NO, 30V – 2Ah
AUX		1X 24VDC – 500mA

## TFP-1212

2 Loop Intelligent Addressable Fire Alarm Panel



TFP-1212 Intelligent Addressable Fire Alarm Panel uses unique FLASHLINK protocol for loop communication which was created by Teknim engineers. Supports 2 loop, 240 devices per loop and network up to 16 control panels. It offers stable and reliable solutions for working in harsh environments.

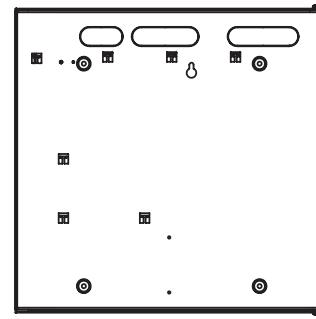
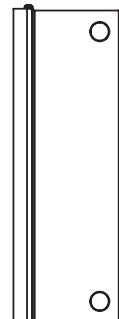
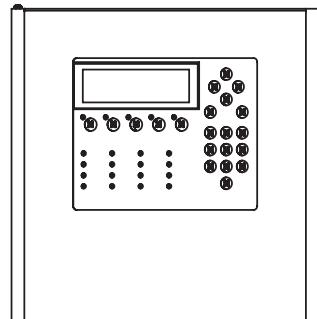
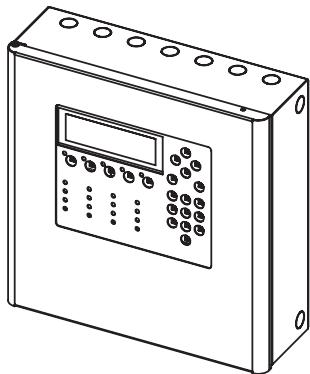
TFP-1212 comes with an LCD graphic display onboard to easily understand the error and alarm warnings and to make all the settings of the device. TFP-1212 also supports built-in LAN network connection which allows local or remote configuration / monitoring by Teknim TFY-100 configuration software and Mosaic monitoring software.

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



**GENERAL FEATURES**

- EN 54-2 and EN 54-4 Certified
- Technician and user friendly; easy to install, programming and operation
- Supports 2 Loop
- Supports 240 Devices per Loop and totally 480 Devices in a single Panel
- 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
- Up to 7.680 devices and 1.152 zones by network (Using optional TFC-1209 Network module)
- Easy to read, 240\*64 wide LCD graphic display and user-friendly interface
- Display customize 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 Repeater panels TFP-1240
- Supports 12.000 events of alarms, errors, and warnings
- Supports 2x independent and monitored siren output. Connection up to 50 conventional sirens without external supply. (If used with Teknim TFS-3192 siren).
- Detailed voltage/current information of the panel and loop on the LCD display
- Night/Day operation mode
- Supports Class A and Class B connections, thus new devices can be easily included in the loop via star connection in mandatory cases required for the Project
- Multiple language support





<b>General</b>		<b>TFP-1212</b>
Standard		EN54-2/4
Ethernet (TCP/IP)		Yes
Multiple Language		Yes
Display		240x64 LCD
Programming		Through Control Panel or via TFY-100 Software
<b>Loop Information</b>		
Loop		2
Number of Devices Supports Per Loop		240
Total Device Support		480
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 )
<b>Network</b>		
Protocol		TdNET (RS-485)
Max. Panel Network		16 (TFC-1209 Network Card Needed)
<b>Mechanical</b>		
Dimensions (mm)		385 x 380 x 130 mm
Body Material and Color Options		Metal Light Grey – TFP-1212 Red – TFP-1212R
Weight		6,5Kg (Without Battery)
<b>Environmental</b>		
Operating Temperature		-10°C ~ 55°C
Humidity		95% RH
Protection Class		IP30
<b>Power</b>		
Power		230 / 110 VAC (+%10 / -%15)
Frequency		50 / 60 Hz (±%5)
Fuse		6A
Battery		3 x 1,5mm <sup>2</sup>
Imin		130 mA
ImaxA		1A
ImaxB		1,5A
<b>Outputs</b>		
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-1214

4 Loop Intelligent Addressable Fire Alarm Panel



TFP-1214 Intelligent Addressable Fire Alarm Panel uses unique FLASHLINK protocol for loop communication which created by Teknim engineers. Supports 4 loop, 127 devices per loop and network up to 16 control panels. It offers stable and reliable solutions for working in harsh environments.

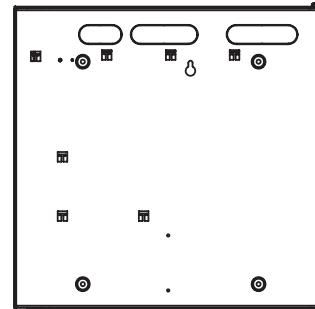
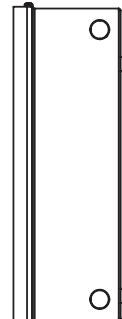
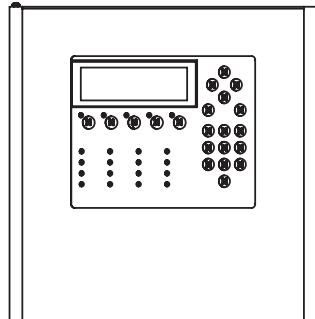
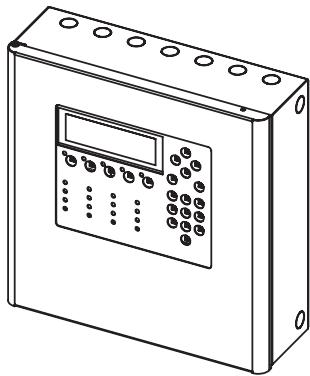
TFP-1214 comes with an LCD graphic display onboard to easily understand the error and alarm warnings and to make all the settings of the device. TFP-1214 also supports built-in LAN network connection which allows local or remote configuration / monitoring by Teknim TFY-100 configuration software and Mosaic monitoring software.

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



**GENERAL FEATURES**

- EN 54-2 and EN 54-4 Certified
- Technician and user friendly; easy to install, programming and operation
- Supports 4 Loop
- Supports 127 Devices per Loop and totally 508 Devices in a single Panel
- 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
- Up to 8.128 devices and 1.152 zones by network (Using optional TFC-1209 Network module)
- Easy to read, 240\*64 wide LCD graphic display and user-friendly interface
- Display customize 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 Repeater panels TFP-1240
- Supports 12.000 events of alarms, errors, and warnings
- Supports 2x independent and monitored siren output. Connection up to 50 conventional sirens without external supply. (If used with Teknim TFS-3192 siren).
- Detailed voltage/current information of the panel and loop on the LCD display
- Night/Day operation mode
- Supports Class A and Class B connections, thus new devices can be easily included in the loop via star connection in mandatory cases required for the Project
- Multiple language support





<b>General</b>		<b>TFP-1214</b>
Standard		EN54-2/4
Ethernet (TCP/IP)		YES (Onboard)
Multiple Language		Yes
Display		240x64 LCD
Programming		Through Control Panel or via TFY-100 Software
<b>Loop Information</b>		
Loop		4
Number of Devices Supports Per Loop		4
Total Device Support		127
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)
<b>Network</b>		
Protocol		Yes
Max. Panel Network		16 (TFC-1209 Network Card Needed)
<b>Mechanical</b>		
Dimensions (mm)		385 x 380 x 130 mm
Body Material and Color Options		Metal Light Grey – TFP-1214 Red – TFP-1214R
Weight		6,5 Kg
<b>Environmental</b>		
Operating Temperature		-10°C ~ 55°C
Humidity		95% RH
Protection Class		IP30
<b>Power</b>		
Power		230 / 110 VAC (+%10 / -%15)
Frequency		50 / 60 Hz (±%5)
Fuse		6A
Battery		3 x 1,5mm <sup>2</sup>
Imin		130 mA
ImaxA		1A
ImaxB		1,5A
<b>Outputs</b>		
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

# TFP-1211, TFP-1212, TFP-1214

Intelligent Addressable Fire Alarm Panel

Technical Specifications



General	TFP-1211	TFP-1212	TFP-1214
Standard	EN54-2/4	EN54-2/4	EN54-2/4
Ethernet (TCP/IP)	Yes	Yes	Yes
Multi Language Support	Yes	Yes	Yes
Display	240x64 LCD Screen	240x64 LCD Screen	240x64 LCD Screen
Programlama	Through Control Panel or Via TFY-1000 Configuration Software	Through Control Panel or Via TFY-1000 Configuration Software	Through Control Panel or Via TFY-1000 Configuration Software
Printer Support	No	No	Yes
<b>Loop Information</b>			
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	72	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)	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)	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)
<b>Network</b>			
Protocol	TdNET (RS-485)	TdNET (RS-485)	TdNET (RS-485)
Max. Panel Network	16 (TFC-1209 Network Card Needed)	16 (TFC-1209 Network Card Needed)	16 (TFC-1209 Network Card Needed)
<b>Mechanical</b>			
Dimensions (mm)	385 x 380 x 130 mm	385 x 380 x 130 mm	385 x 380 x 130 mm
Body Material and Color Options	Metal Light Grey – TFP-1211 Red – TFP-1211R	Metal Light Grey – TFP-1211 Red – TFP-1211R	Metal Light Grey – TFP-1211 Red – TFP-1211R
Weight	6,5Kg (Without Battery)	6,5Kg (Without Battery)	6,5Kg (Without Battery)
<b>Environmental</b>			
Operating Temperature	-10°C ~ 55°C	-10°C ~ 55°C	-10°C ~ 55°C
Humidity	95% RH	95% RH	95% RH
Protection Class	IP30	IP30	IP30
<b>Power</b>			
Power	230 / 110 VAC (+%10 / -%15)	230 / 110 VAC (+%10 / -%15)	230 / 110 VAC (+%10 / -%15)
Frequency	50 / 60 Hz (±%5)	50 / 60 Hz (±%5)	50 / 60 Hz (±%5)
Fuse	6A	6A	6A
Battery	2 x 12V, 7Ah 2 x 12V, 12Ah	2 x 12V, 7Ah 2 x 12V, 12Ah	2 x 12V, 7Ah 2 x 12V, 12Ah
Imin	130 mA	130 mA	130 mA
ImaxA	1A	1A	1A
ImaxB	1,5A	1,5A	1,5A
<b>Outputs</b>			
Monitored Sounder Output	2	2	2
Sounder Output	500 mA	500 mA	500 mA
Sounder EOL	4K7Ω	4K7Ω	4K7Ω
General Fault Relay	1X NC/NO, 30V – 2Ah	1X NC/NO, 30V – 2Ah	1X NC/NO, 30V – 2Ah
Alarm Relay	1X NC/NO, 30V – 2Ah	1X NC/NO, 30V – 2Ah	1X NC/NO, 30V – 2Ah
AUX	1X 24VDC – 500mA	1X 24VDC – 500mA	1X 24VDC – 500mA

# TFP-1240

Intelligent Addressable Repeater



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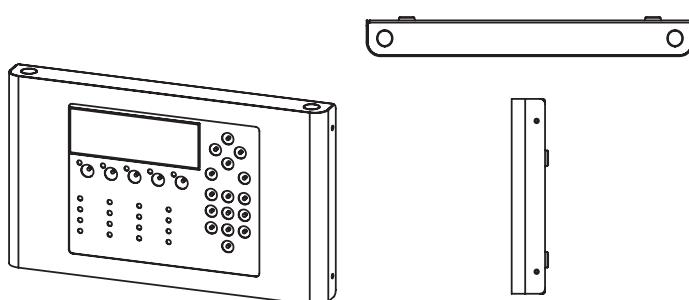
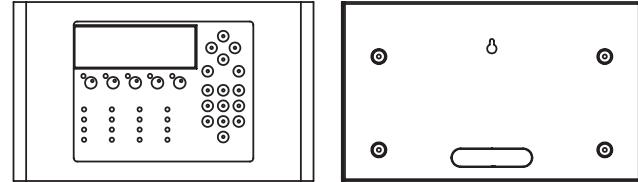


Teknim TFP-1240 repeater panel is developed to monitor and intervene fire detection systems from different points at large and medium scale enterprises. It can be connected approximately up to 1.000 mt distance from main panel via RS-485 communication layer.

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



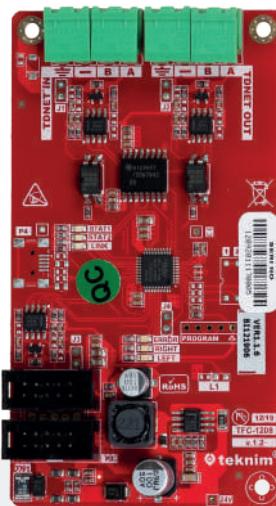
Technical Specifications		TFP-1240
Main Supply Voltage	24±4 VDC	
Maximum Consumption	0,15A @24 VDC	
Cable Type and Distance	J-Y (ST) Y-L9 1000 mt 0,8 mm	
Mechanical		
Dimensions (mm)	230 x 386 x 40 mm	
Weight	2,6Kg	
Body material and color	Metal Light Grey – TFP-1240 Red – TFP-1240R	
Environmental		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

## TFC-1209

Network Module with Built-in Isolator



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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.

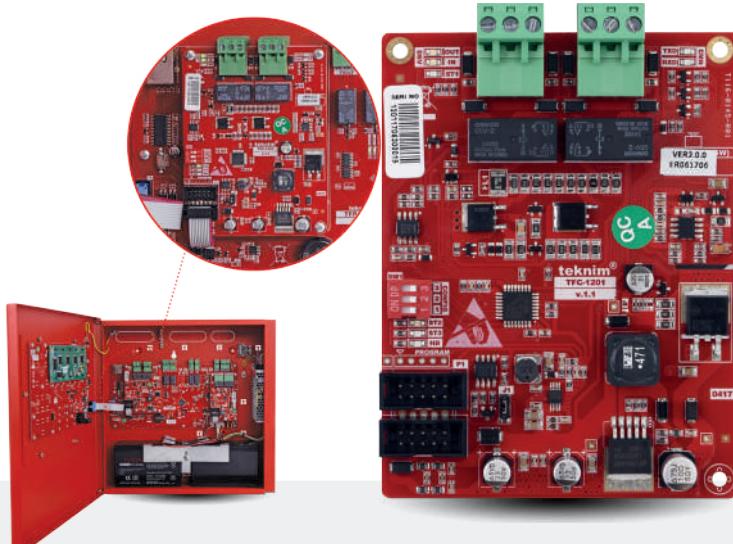
TdNET protocol defines Network and Data Link layers according to OSI (Open Systems Interconnection) defined by International Standard Organization.

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 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

<b>TFC-1201</b>	
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.



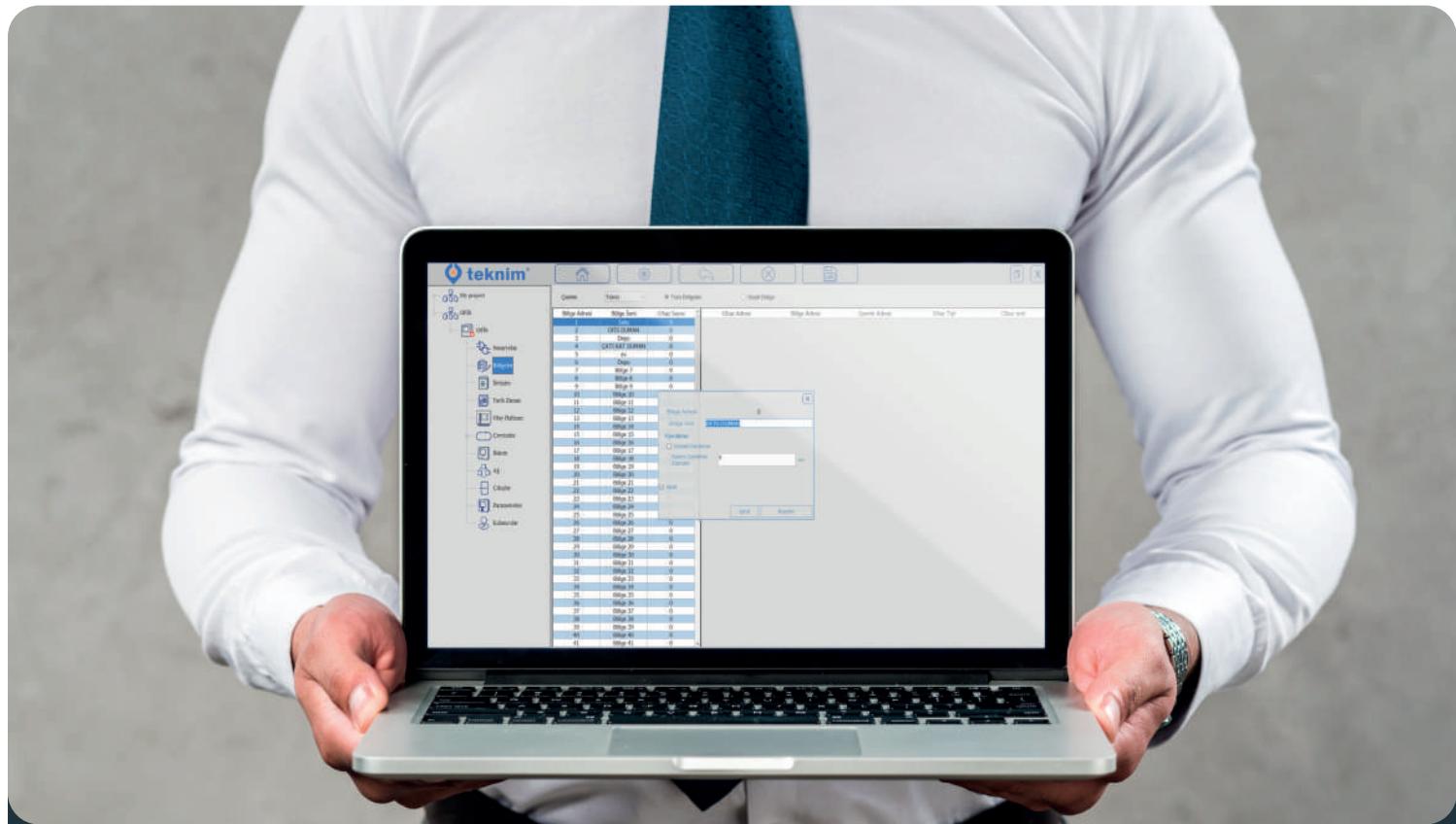
TFCM-1801 device programming module is developed to define address for addressable devices such as detectors, mcp, input-output modules or to read defined address and firmware version of the devices. It is supplied from 9V (6LR61) battery.

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



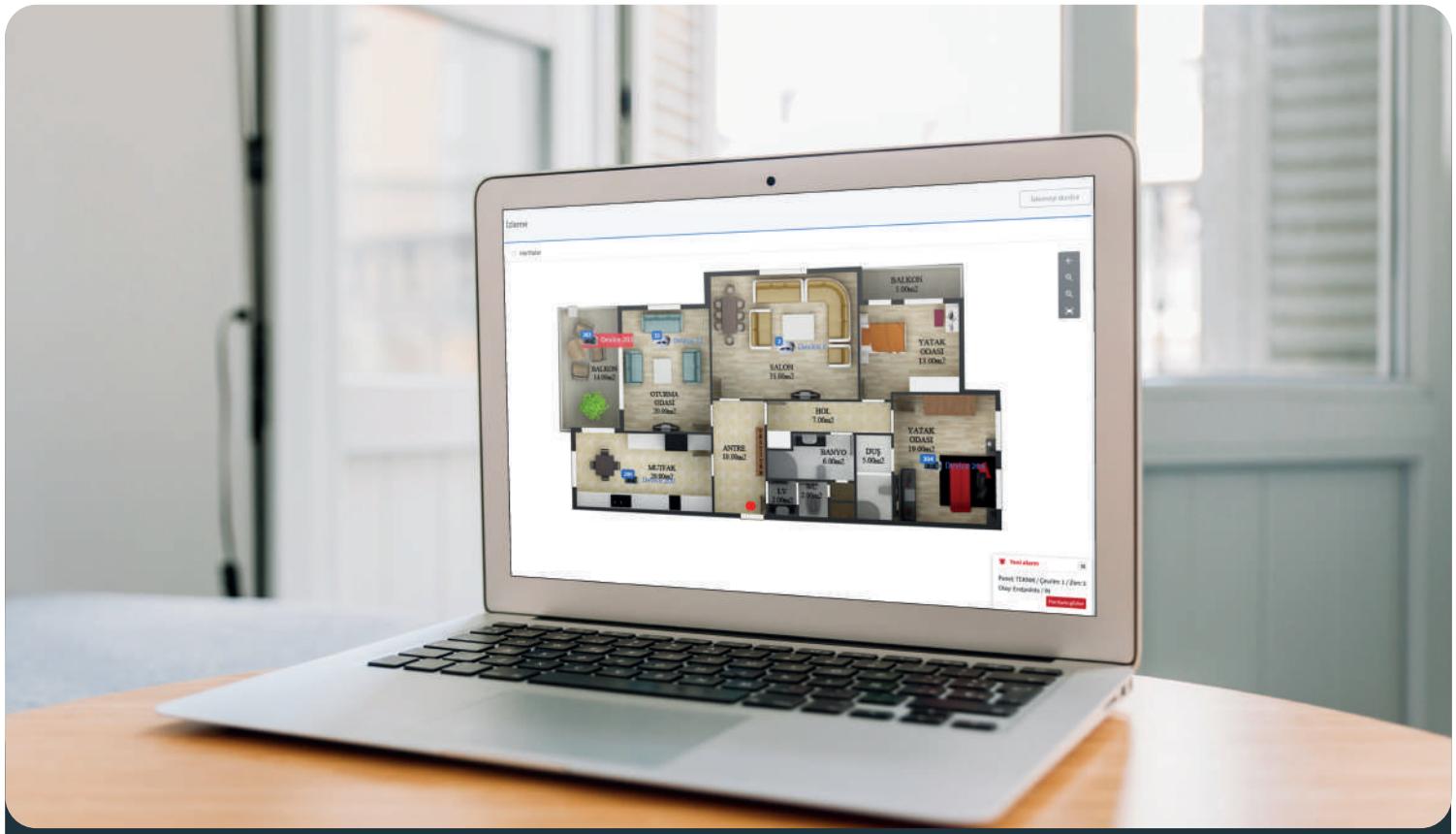
TFY-1000 is a configuration software for all Teknim addressable control panels. It has simple interface structure and drag-drop feature makes the software easy to use. It saves installers from significant time losses during configuration. In addition to the functional features on the control panel, the 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



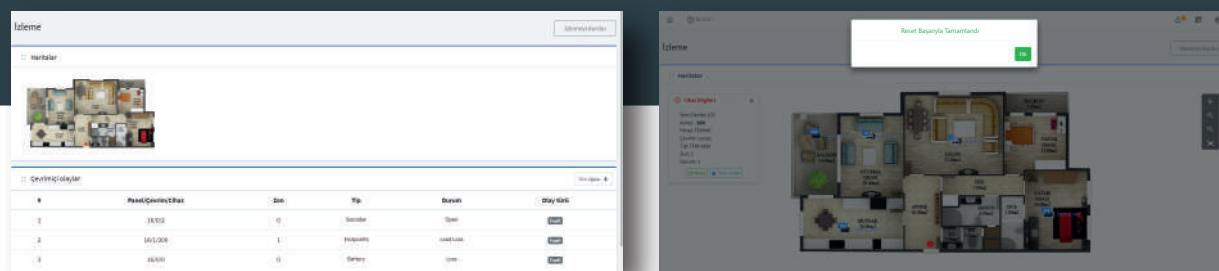


Mosaic-2000 is a web based graphical monitoring software for Teknim addressable fire alarm system. It supports adding multiple maps for projects and providing adding all devices on maps according to project needs.

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



## TFD-1251

Intelligent Addressable Smoke Detector with Built-in Isolator

## TFD-1250

Intelligent Addressable Smoke Detector



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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 Parallel 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)



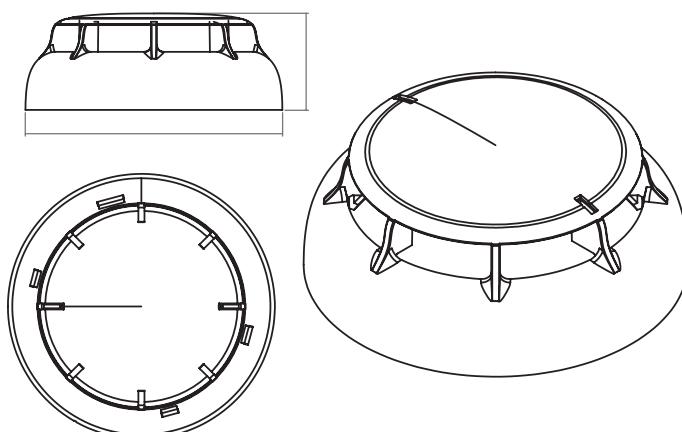
TFD-1261 and TFD-1260 Detectors uses heat detection technologies to sense fire and it can be connected two-wired loop circuit carrying both data and power. It uses FlashLink communication protocol to communicate Teknim Addressable control panels. It has a series of algorithms to minimize faulty detections.

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 Parallel 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)



TFD-1271 and TFD-1270 detectors are uses combination of optical and 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 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.

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 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 Parallel 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 – l: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.

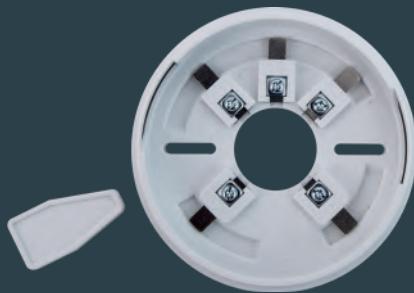
### Technical Specifications

### 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.



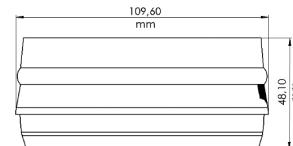
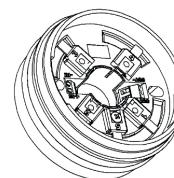
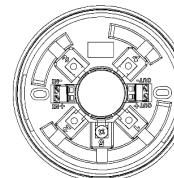
TFM-128X bases can be used with Teknim addressable detectors (TFD-12XX). TFM-128X bases can be in a formed such as isolator, buzzer and flasher which design to meet all needs of warning for the detectors.

### 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			
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 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.

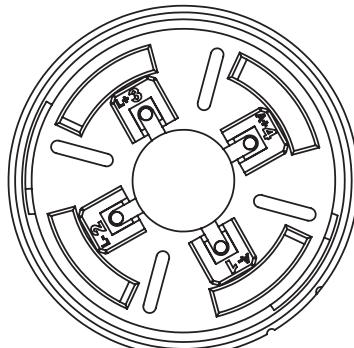
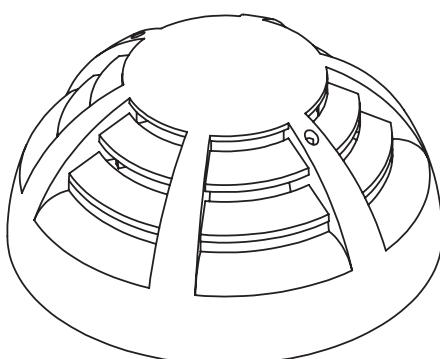
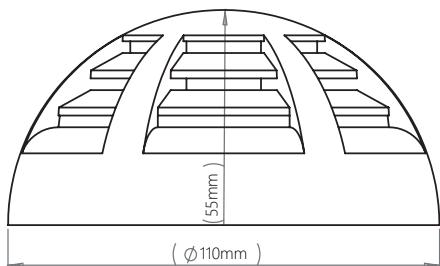
### GENERAL FEATURES

- 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

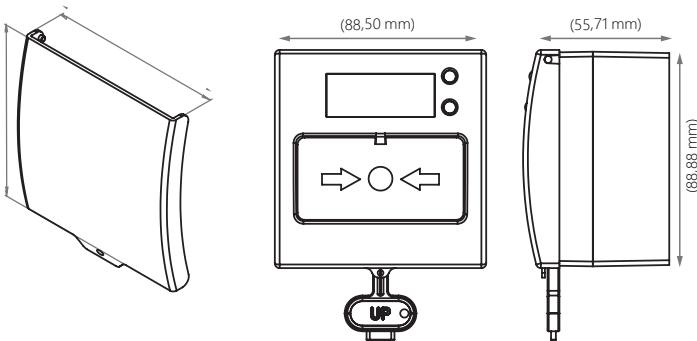
Intelligent Addressable Manual Call Point with Built-in Isolator



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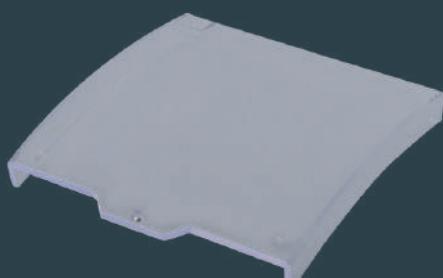


TFB-1166 is an addressable manual call point with built-in isolator, designed and produced comply with EN54-11 and EN54-17. It is equipped with dual LEDs to indicate local alarms (Red Colored LED) and short-circuit alert (Yellow Colored LED). TFB-1166 MCP can be used with TFP-12XX Addressable control 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

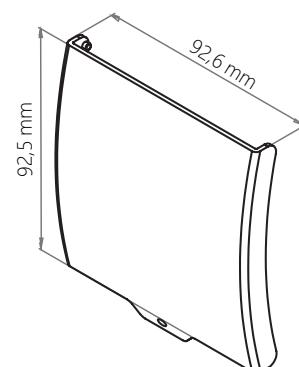


The cover is made of robust polycarbonate transparent material. It is used to prevent accidental button activation.

### 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



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



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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 polycarbonate 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



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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

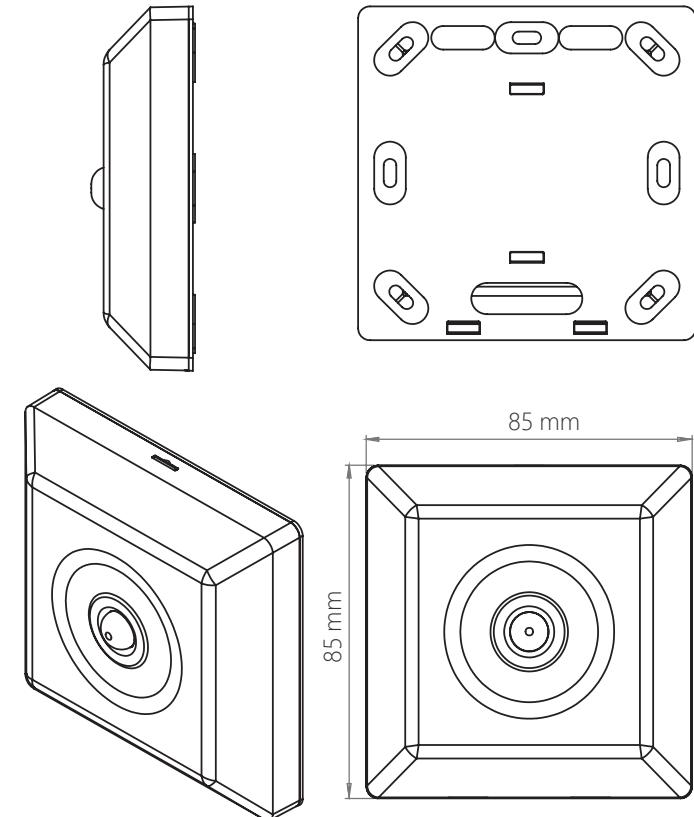
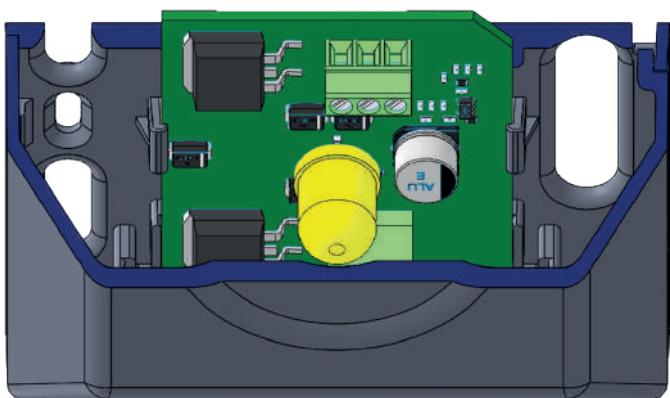
- EN54-23 and EN54-17 Certified
- Built-in Isolator
- 3 Different Flasher Mode
- 3 Different Brightness Mode
- White and Red Color Options
- Red/White, transparent UL94 non-flammable poly carbonate plastic frame

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 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



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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 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

## TFM-1431

Intelligent Addressable I/O Module with Built-in Isolator



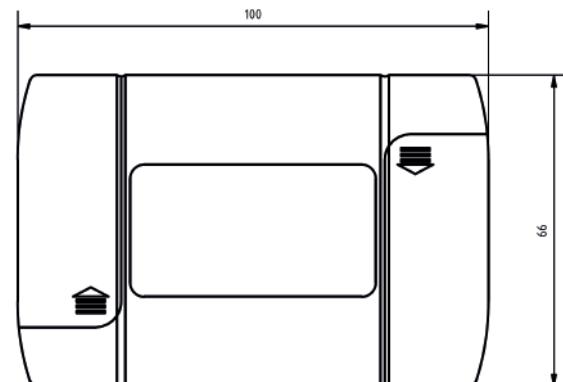
TFM-1431 used with TFP-12xx series addressable fire alarm panels and supports single input and output. The device is also supporting built-in isolator to protect the loop line against short circuit.



### 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

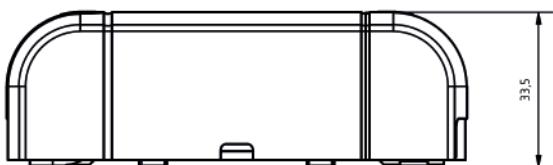
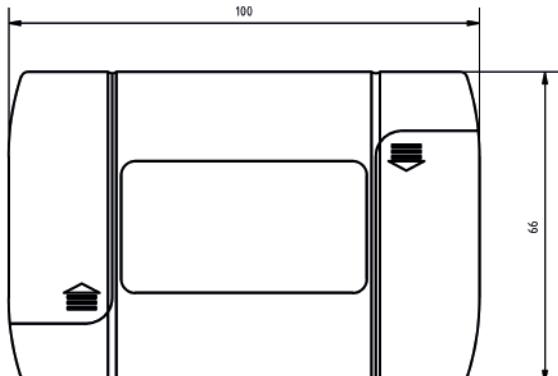
Intelligent Addressable Input Module with Built-in Isolator



### PRODUCT TYPES

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

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



**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.



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