



Catalogue

Slim edition 1 - 2025

English

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**QRCode to view
Tecnofire catalogue**

TECNOFIRE AUTOMATIC FIRE DETECTION SYSTEMS



The guarantee of a brand

Tecnoalarm plays a key role in the creation of the Tecnofire brand: research and development, investment capacity, as well as the quality and reliability of high-value-added technological solutions stemming from Tecnoalarm's decades of experience.

The strategic development of the Tecnofire brand involves operational autonomy, the search for innovative technological solutions, the constant expansion of the sales network - tools that in the long run will guarantee both high levels of growth and customer satisfaction.

Utilising the technological resources formed by Tecnoalarm guarantees Tecnofire's customers not only a high-quality product, but also first-rate technical, commercial and logistical support.

RSC® Technology

The huge market success of Tecnoalarm's RSC® technology confirms the strategy of applying the same technological model also within Tecnofire's area of expertise. Taking centre stage among the many technologies, products and services is the RSC® technology model due to its reliability, completeness and operational flexibility.

Including RSC® technology ensures significant added value within system management, as remote management implies a marked reduction in checking and maintenance times and costs.

RSC® technology not only ensures system management benefits for different operating modes, but also in terms of timeliness and cost-effectiveness of service.

EN 54



Security professionals

Designers and installers utilising Tecnofire technologies are professionals able to accurately analyse and thoroughly assess the potential fire risks.

Tecnofire provides its skilled team with all the documentation required to guarantee the upmost professionalism.

The website www.tecnofiredetection.com lets you benefit from the dedicated designer consultancy services. It contains regulatory frameworks, texts for quick drafting of specifications and metric calculations, technical drawings, data sheets, etc.

Tecnofire's Technical-Sales representatives are always on hand to provide consultancy services.



Certification

Tecnofire by Tecnoalarm designs and manufactures its products within an ISO 9001 certified quality management system.

Tests and trials carried out by accredited Italian and European certification bodies have enabled Tecnofire products to be certified in accordance with current EN 54 standards.



Addressable fire detection control panel 1 Loop



Addressable fire detection control panel. Equipped with 1 detection loop.

The loop can manage: 199 detectors and 99 modules. 1 RS485 serial bus for expansion device connection, up to 5 devices chosen from: repeater panels and/or communication devices.

The control panel manages 150 fire detection or technical zones and 100 virtual detection zones.

Automated management: 50 alarm plans, 8 time ranges, 100 formulas and customisable or permanent four-year calendar.

Advanced management with logic based on the application of formulas that dynamically relate the operating status of the system devices.

The control panel is equipped with 3 specialist signal outputs and 2 openly programmable signal outputs.

Monitored system mode functions. User interface: 4.3" colour display, programming and management keypad, 16 signal LED, speech synthesis and multifunctional acoustic signal buzzer. USB port. Serial printer management.

System RSC® management: programming, remote management and control.

Modular 2.7A switching power supply unit. Battery capability: 2 x 12V-7.2Ah. Aluminum and steel casing.

Protection rating IP3x. Dimensions (L x H x D) 361 x 301 x 107mm.

Approved EN 54-2: 1997+ A1:2006 - EN 54-4: 1997+ A1:2002 + A2:2006.

Certificate 0051-CPR-0444.

System compatibility UNI EN 54-13:2020.

MODELS		RSC	EN 54-2 54-4	1 LOOP	VOICE SYNTHESIS	COLOR DISPLAY 4.3"	24V 2.7A 2.7A POWER SUPPLY	STEEL ALUMINUM BOX
Name	Item no.							
TFA1-298	TF1TFA1298-UK							

Addressable fire detection control panel 2 Loops



Addressable fire detection control panel. With 2 detection loops.

Each detection loop can manage: 199 detectors and 99 modules. 2 RS485 serial buses for expansion device connection, up to 16 devices chosen from: repeater panels and/or communication devices.

The TFA2-596 control panel can be part of a network of Tecnofire units. The control panel manages 300 fire detection or technical zones and 100 virtual detection zones. Automated management: 100 alarm plans, 32 time ranges, 200 formulas, server cyclic testing and customisable or permanent four-year calendar.

Advanced management with logic based on the application of formulas that dynamically relate the operating status of the system devices.

The control panel is equipped with 4 specialist signal outputs and 6 openly programmable signal outputs.

TLC Section: IP communication port, 4 communication channels: Local Server, Remote Server, Tecnoserver, Call back, 8 event notification communicators, 2 IP address contacts for each communicator, 5 communication protocols, 15 transmissible event categories.

Monitored system mode functions User interface: 4.3" colour display, programming and management keypad, 16 signal LED, speech synthesis and multifunctional acoustic signal buzzer.

USB port. Serial printer management. System RSC® management: programming, remote management and control.

Modular 5A switching power supply unit. Battery capability: 2 x 12V-12Ah. Aluminum and steel casing.

Protection rating IP3x. Dimensions (L x H x D) 441 x 347 x 149mm.

Approved EN 54-2: 1997+ A1:2006 - EN 54-4: 1997+ A1:2002 + A2:2006.

Certificate 0051-CPR-0389.

System compatibility UNI EN 54-13:2020.

MODELS									
Name	Item no.								
TFA2-596	TF1TFA2596-UK								

Addressable fire detection control panel 4 Loops









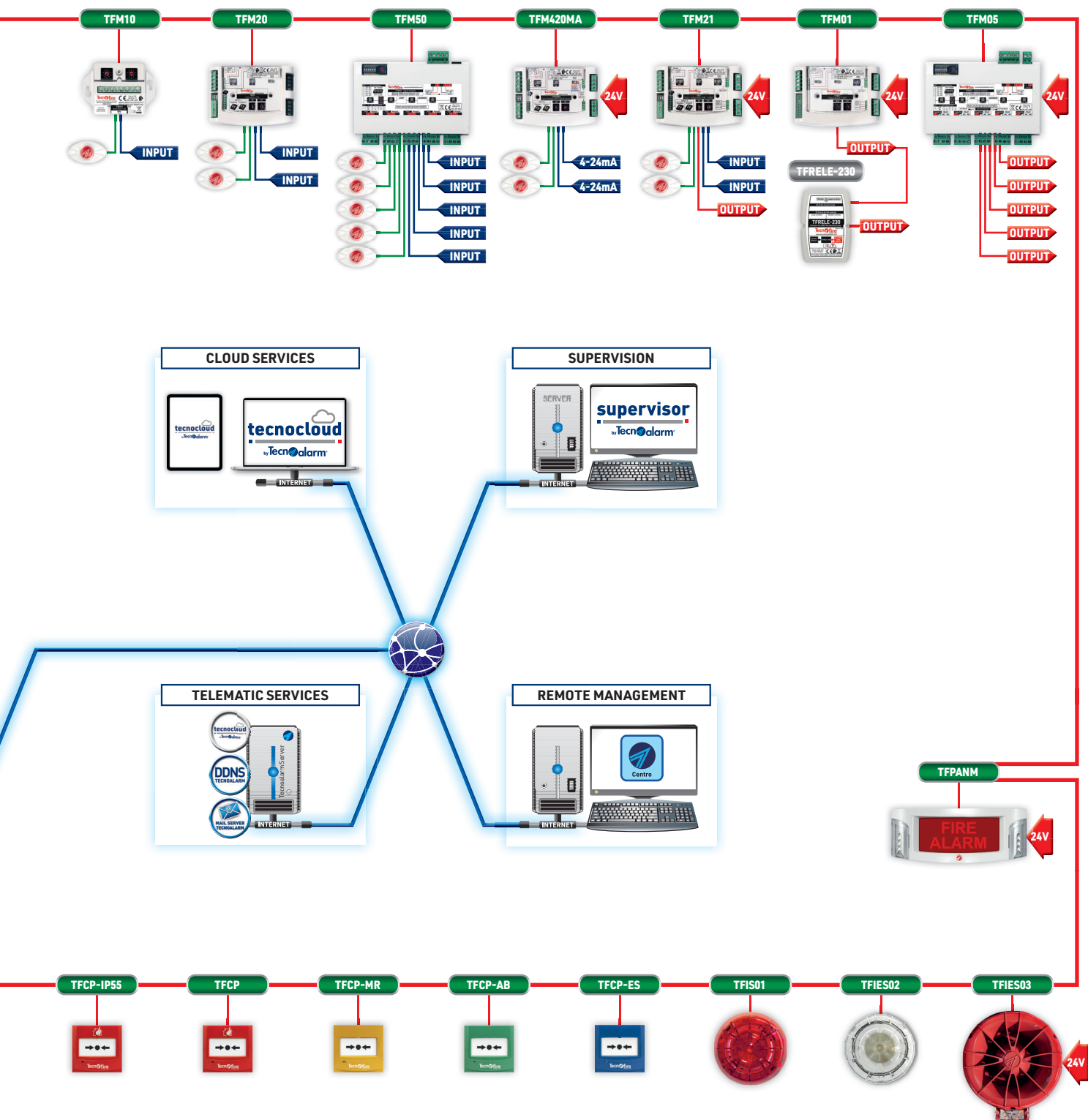
Addressable fire detection control panel. With 4 detection loop lines.
Each detection loop can manage: 199 detectors and 99 modules. 2 RS485 serial buses for expansion device connection, up to 16 devices chosen from: repeater panels and/or communication devices.
The TFA4-1192 control panel can be part of a network of Tecnofire units.
The control panel manages 300 fire detection or technical zones and 100 virtual detection zones.
Automated management: 200 alarm plans, 32 time ranges, 400 formulas, server cyclic testing and customisable or permanent four-year calendar. Advanced management with logic determined by the application of formulas that dynamically relate the operating status of the system devices.
The control panel is equipped with 4 specialist signal outputs and 6 openly programmable signal outputs.
TLC Section: IP communication port, 4 communication channels: Local Server, Remote Server, Tecnoserver, Call back, 8 communicators for event notification, 2 IP address contacts for each communicator, 5 communication protocols, 15 transmittable event categories.
Monitored system mode functions. User interface: 4.3" colour display, programming and management keypad, 16 signal LED, speech synthesis and multifunctional acoustic signal buzzer. USB port. Serial printer management.
System RSC® management: programming, remote management and control.
Modular 5A switching power supply unit. Battery capability: 2 x 12V-12Ah.
Aluminum and steel casing. Protection rating IP3x. Dimensions (L x H x D) 441 x 347 x 149mm.
Approved EN 54-2: 1997+ A1:2006 - EN 54-4: 1997+ A1:2002 + A2:2006.
Certification 0051-CPR-0388.
System compatibility UNI EN 54-13:2020.

MODELS									
Name	Item no.								
TFA4-1192	TF1TFA41192-UK								

Addressable control panels - TFA4-1192

System configuration

Technologies	
Advanced Management Services	 
Services	  



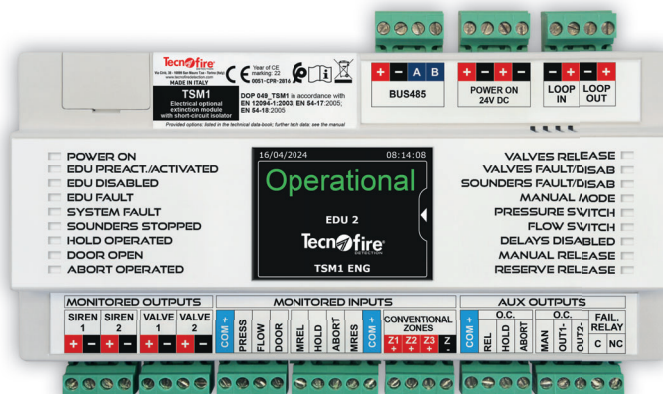
Addressable fire detection and extinguishing control panel 1 Loop



Addressable fire detection and extinguishing control panel. The characteristics listed refer to the TSA1 EXTENDED set-up. Equipped with a detection loop and an Extinguish Device Unit (EDU). The detection loop can handle up to 199 detectors, 99 modules and 9 TSM1 modules (peripheral EDU extinguishing channels). 2 RS485 serial buses for expansion device connection, up to 5 devices chosen from: repeater panels and/or communication devices. Serial buses also allow you to connect the unit in a network of Tecnofire control panels. The control panel manages 150 detection zones associated with 100 alarm plans, 8 time ranges. Advanced management with logic based on the application of formulas that dynamically relate the operating status of the system devices. 100 formulas. 100 Virtual detection zones. The control panel is equipped with 3 specialist signal outputs and 2 openly programmable signal outputs. The integrated EDU is equipped with: 3 conventional detection zone inputs, 7 controlled inputs for the management of the actuating and control devices, 2 controlled outputs for the management of the extinguishing valves, 2 controlled outputs for the management of the optical-acoustic alarm devices, 5 specialist signal outputs. Automatic or manual operating mode. Extinguishing cycle with 5 execution modes. Centralised or local management of 10 independent EDU, with local or centralised extinguishing cycle control, also in switching execution mode. User interface: 4.3" colour display, soft touch programming and management keyboard, 33 signal LED. Multifunctional acoustic warning buzzer. System RSC® management: programming, remote management and control. Customisable or permanent four-year calendar management. Event memory managed in FIFO logic capacity 8192 events. Modular 2.7A switching power supply unit. Battery capability: 2 x 12V-7Ah. ABS and steel casing. Surface mounting or via optional adapters in 19" rack casing. Protection rating IP3x. Available in the following colours: White, Grey, Red, Yellow. Dimensions (L x H x D) 440 x 345 x 146mm. **Approved EN 54-2: 1997+ A1:2006 - EN 54-4: 1997+ A1:2002 + A2:2006 - EN 12094-1: 2003.** **Certification 0051-CPR-2816.** **System compatibility UNI EN 54-13:2020.**

MODELS											
Name	Item no.	Colour									
TSA1	TF1TSA1-UK	White									
	TF1TSA1Y-UK	Yellow									
	TF1TSA1R-UK	Red									
	TF1TSA1G-UK	Grey									

Addressable fire detection and extinguishing module for TSA1 control panel



Addressable fire detection and extinguishing module. Complete management of a decentralised extinguishing channel. Operating mode: autonomous or following the extinguishing logic given by the TSA1 control panel.

The integrated EDU is equipped with: 3 conventional detection zone inputs, 7 controlled inputs for the management of the actuating and control devices, 2 controlled outputs for the management of the extinguishing valves, 2 controlled outputs for the management of the optical-acoustic alarm devices, 5 specialist signal outputs, 2 openly programmable signal outputs.

Automatic or manual operating mode. Extinguishing cycle with 4 execution modes.

RS485 serial bus for connecting TFT-4.3C repeater panels. Connection on detection loop, double line isolator.

Power from external source, rated voltage 24V DC. User interface: 2.4" capacitive colour touch screen display, 18 signal LED.

Multifunctional acoustic warning buzzer.

Detection logic of the three conventional zones determined by the associated detection formula.

The three conventional zones can be replaced with other analogue detection zones operated by the TSA1 unit.

RSC® management of the device: programming, remote management and control of all operating parameters.

Surface mounting or direct coupling to DIN omega bar. ABS casing. Protection rating IP3x. White colour.

Dimensions (L x H x D) 189 x 117 x 61mm.

Module conforming to EN 54-18:2005/AC:2007 - EN 54-17:2005 - EN 12094-1: 2003.

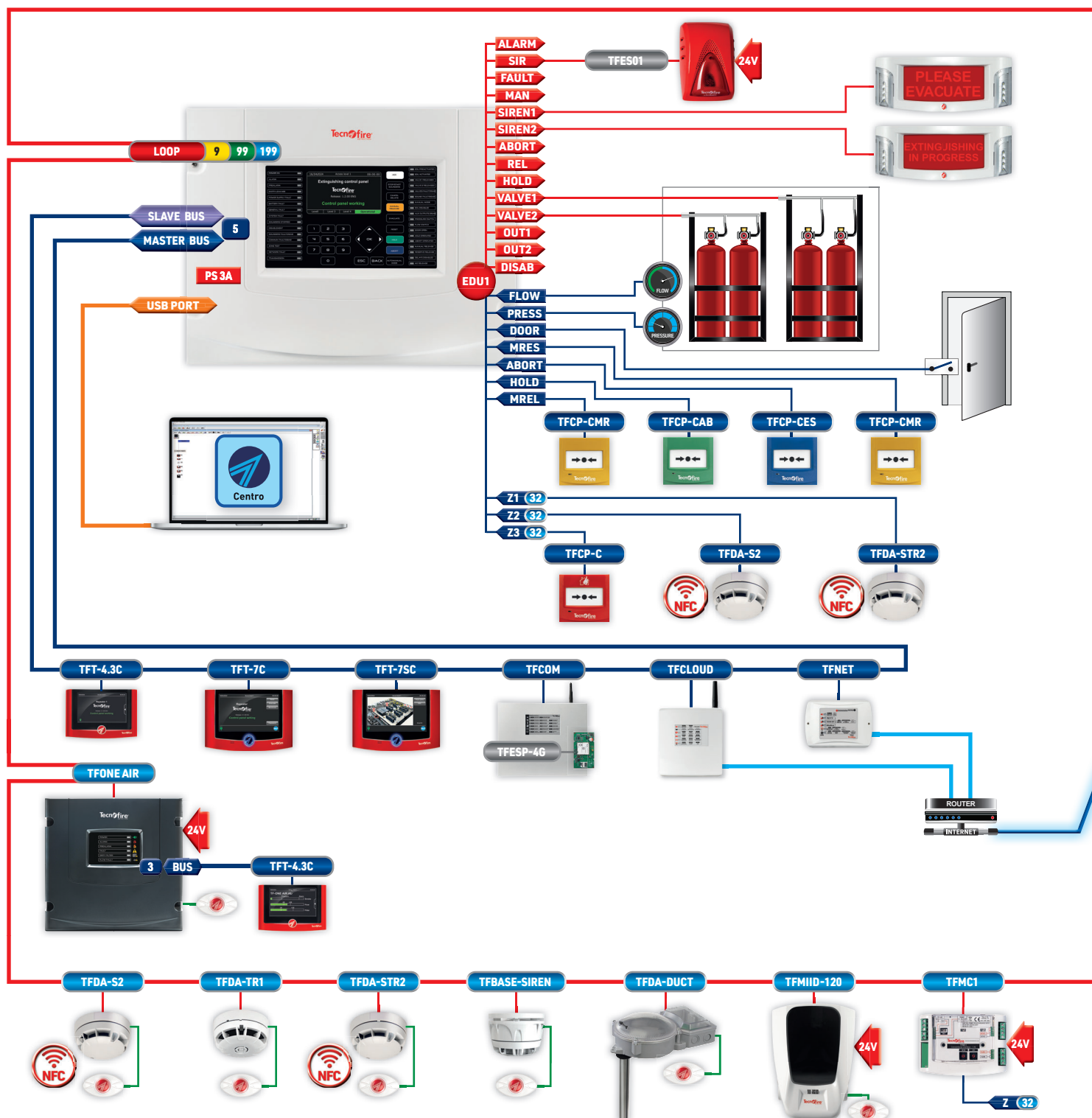
Certification 0051-CPR-2816.

System compatibility UNI EN 54-13:2020.







MODELS		RSC	EN 54-18 54-17	EN 12094-1	EDU EXTINGUISHING DEVICE UNIT	3 CONVENTIONAL ZONES Z1 Z2 Z3 32 32 32	TOUCH SCREEN 2.4"	DIN RAIL MOUNT	ABS BOX
Name	Item no.								
TSM1	TF4TSM1-UK								

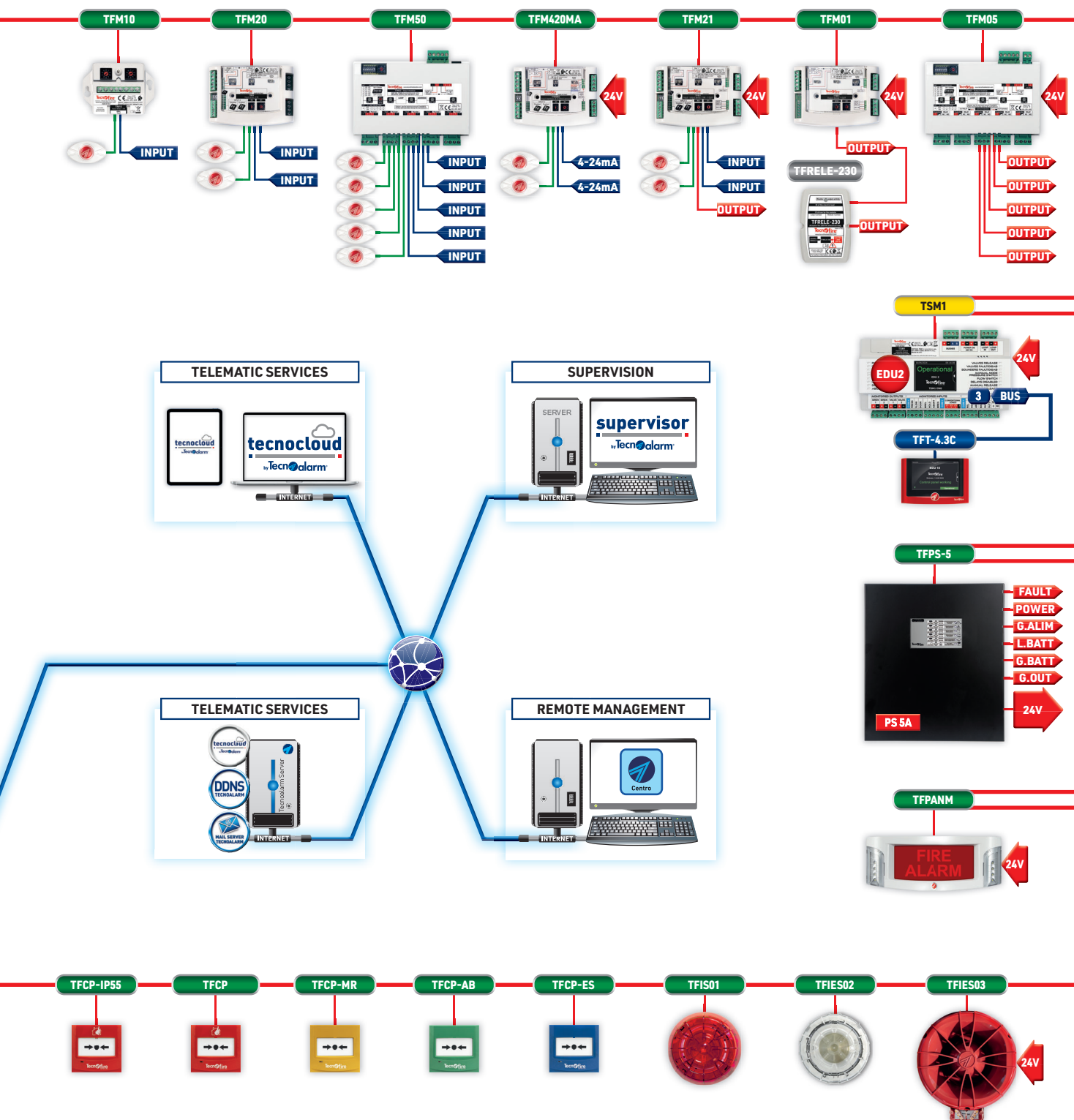


Basic equipment	1 LOOP	EDU EXTINGUISHING DEVICE UNIT	3 CONVENTIONAL ZONES Z1 Z2 Z3 32 32 32	150 VIRTUAL ZONES	100 VIRTUAL ZONES
Manageable devices	5 EXPANSION DEVICE	199 DETECTORS	99 MODULES	9 EDU	
Automated managements	100 FORMULAS AND NOTI OR I	50 ALARM PLANS	8 ACCESS PERIODS FROM TO	4 CALENDAR YEARS	



System configuration

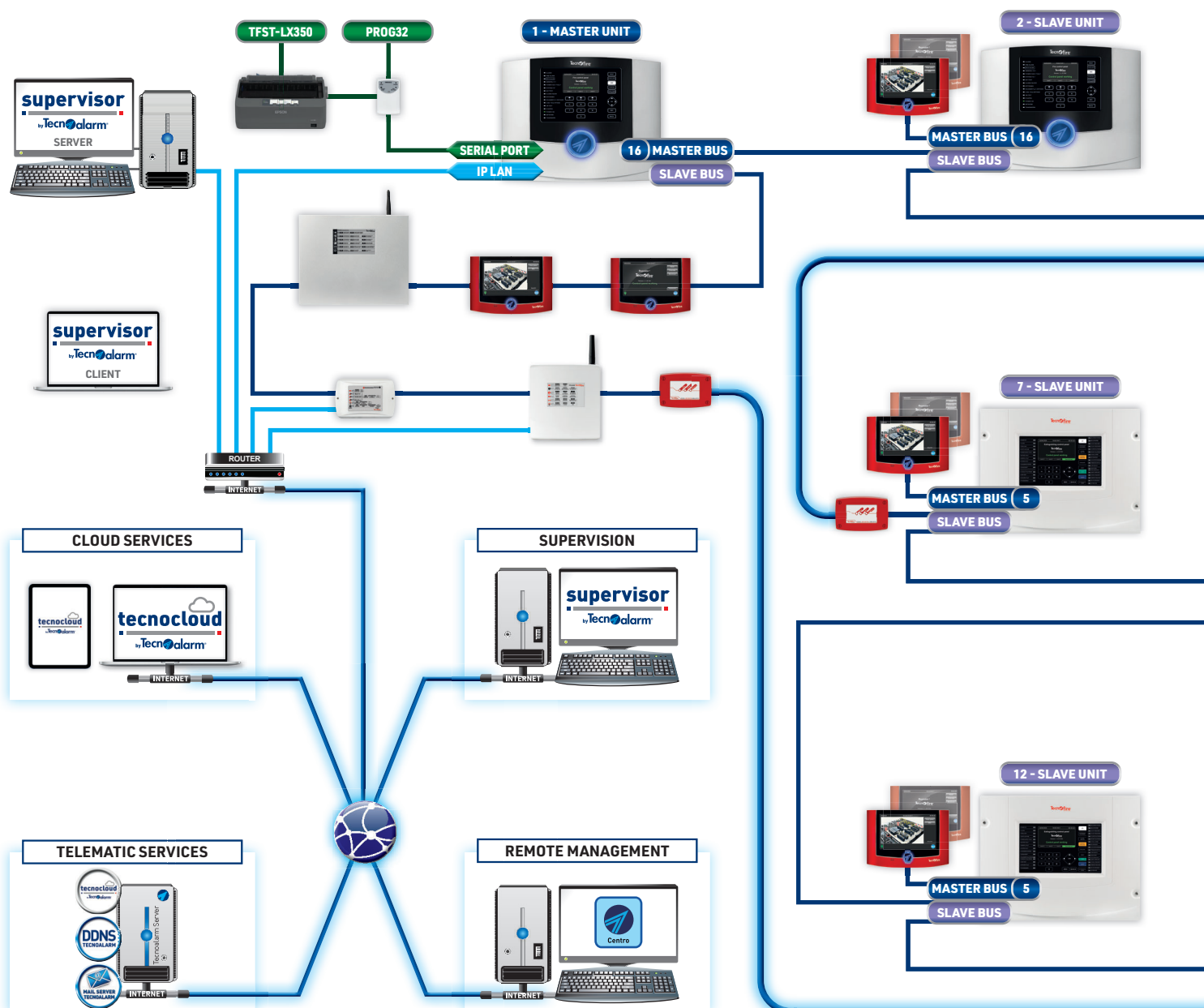
Technologies	
Advanced Management Services	 
Services	  



Control panel network

	TFA2-596	TFA4-1192	TSA1 BASE	TSA1 LIMITED	TSA1 EXTENDED
Role in the System	Master / Slave	Master / Slave	Slave	Slave	Slave
Expansion devices	16	16	5	5	5
Detection loops	2	4	1	1	1
Integrated EDU	-	-	1	1	1
Managed detectors	398 (199 x 2)	796 (199 x 4)*	32	64	199
Managed modules	198 (99 x 2)	396 (99 x 4)	16	32	99
Managed EDU modules	-	-	-	5	9
Managed zones	300	300	5	50	150

* The EN 54-2 standard allows to connect 512 detectors and/or manual call points to one single fire alarm panel.
Therefore, the maximum number of detectors managed by a Tecnofire network is 8,192 (512 devices multiplied by 16 fire alarm panels).



TFA2-596 - TFA4-1192 - TSA1

The Tecnofire System can be composed of several control panels, up to a maximum of 16 units, connected to each other in the network via RS485 Fire-Bus.

The infrastructure of the control panel network can be built with copper or fibre optic cables.

The network hierarchy includes a Master unit (main) and up to 15 Slave units.

The Master control panel has complete control of the Slave control panels, all the information and reports generated by the Slave control panels are conveyed to the Master control panel.

The role of the Master unit can only be assumed by the detection units: TFA2-596 or TFA4-1192.

The role of a Slave control panel can be taken by the following control panels:

TFA2-596, TFA4-1192 and the TSA1 detection and extinguishing unit.

The operation of the Control panels in network mode complies with the current EN 54-13 standard.

Standard restriction: EN 54-2 chapter 13.6 provides that, in the event of a fault, no more than 512 fire detection points and/or manual signaling points and their mandatory functions are affected.

Consequently, to maintain compliance with EN 54-2, it is not possible to mount more than 512 detection devices and/or manual signaling points on each unit. Therefore, the maximum number of detection points that can be managed by a network of Tecnofire units is 8,192 points (512 points maximum for each of the 16 units).



Expansion devices

Management devices

TFT-4.3C



Management and control repeater panel, equipped with a multifunctional user interface consisting of: 4.3" TFT capacitive touch screen display, speech synthesis with customisable vocabulary, multifunctional acoustic signal device. The panel automatically recognises the device to which it is connected and consequently adapts its functions to the particular operating context. The panel connected to the bus of the TSA1 and TFA1-298 control panels acts as control panel repeater. The panel connected to the bus of the TSM1 extinguishing module and the TF ONEAIR detector, acts as a management panel, taking complete control of the device functions. The panel displays the commands that manage the operation of the module and, in the event of activation, makes the sequence of the extinguishing cycle visible, dynamically notifying the countdown of the delays that control the different phases. Supported System Commands: Silencing and Control panel Restoring/Associated Module, Silencing and Siren Restoring, Evacuation, Extinguishing Events, Monitored Mode, Exclusion and Inclusion of devices. Built-in flash memory for vocabulary customisation, manageable from a personal computer as an external disk. RS485 bus connection. Surface or flush box 503 mounting. Refined ultra-thin design. Red cover. Certification integrated in TSA1 series control panels and TSM1 extinguishing module.

Item no. TF2TFT43C

TFT-7C



Management and control repeater panel, equipped with a multifunctional user interface consisting of: 7" TFT capacitive touch screen display, speech synthesis with customisable multilingual vocabulary, multifunctional acoustic alarm device, contextual, voice and graphic Help function, callable by the user. Multilingual management: the repeater panel provides voice and text information in two languages. Supported System Commands: Silencing and Control panel Restoring, Silencing and Siren Restoring, Evacuation, Monitored Mode, Exclusion and Inclusion of devices. Built-in flash memory for customising the graphical and vocabulary interface, manageable from a personal computer as an external disk, via USB interface. RS485 bus connection. Surface or flush mounting. Refined ultra-thin design. Red cover. Certification integrated in TFA series control panels (0051 CPR 0388 - 0389).

Item no. TF2TFT7C


TFT-7SC










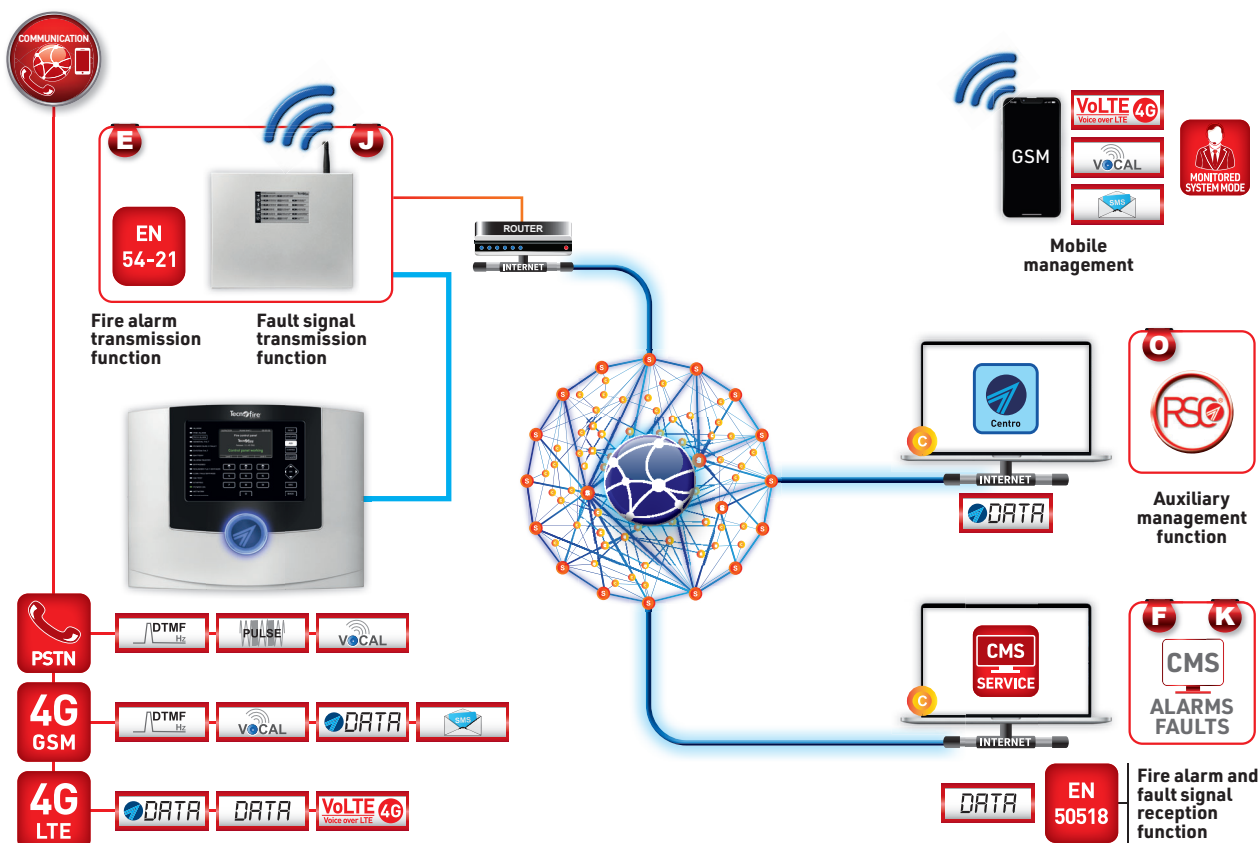
Control and management synoptic repeater panel, with the same features and functionality as the TFT-7C panel, with the implementation of interactive synoptic management of 32 custom graphics maps. Supported System Commands: Silencing and Control panel Restoring, Silencing and Siren Restoring, Evacuation, Monitored Mode, Exclusion and Inclusion of devices. Graphics maps can be displayed in manual or automatic mode. Up to 32 graphic icons can be placed on each map. Each icon can be associated with a system device or a navigation button. In the event of an alarm, the system automatically displays the map that identifies the location of the device being signalled. Alternatively, the panel can be configured as a repeater of a zone, of an area, or of freely chosen points between the devices, areas and lines that make up the system. For the zones and devices associated with the repeater, you can choose according to the type of control panel, how many and which signals to display. The signals can be chosen from: fire prealarm, fire alarm, technical prealarm, technical alarm, fault, test area, test points, display extinguishing events. The zone or department repeater panel mode, for example, allows the filter zones in hospitals to be created as required. RSC® management of the device: programming, remote management and control of all operating parameters. RS485 bus connection. Surface or flush mounting. Refined ultra-thin design. Red cover. Certification integrated in TFA series control panels (0051 CPR 0388 - 0389).

Item no. TF2TFT7SC

Telecommunication devices





<div data-bbox="252 351 378 383">TFCOM</div>	<div data-bbox="534 327 617 409">RSC</div> <div data-bbox="636 327 719 409">EN 54-21</div> <div data-bbox="740 327 821 409">EN 50136</div> <div data-bbox="842 327 924 409">PSTN</div> <div data-bbox="944 327 1026 409">VOICE SYNTHESIS</div> <div data-bbox="1046 327 1128 409">SELF- POWERED</div> <div data-bbox="1149 327 1232 409">FLASH MEMORY</div> <div data-bbox="1251 327 1334 409">USB PORT</div> <div data-bbox="1353 327 1436 409">STEEL BOX</div>
	<p>Telecommunication device, integrated PSTN vector.</p> <p>Optional GSM and LTE telephone vectors available with the TFESP-4G expansion module.</p> <p>8 communicators/channels for event notification, 1 specialised call back communicator/channel for connection to the monitoring centre.</p> <p>33 transmissible event categories. 5 transmissible zone event types.</p> <p>2 telephone numbers or IP addresses for each communicator. 29 communication protocols.</p> <p>Transmission formats: Voice, SMS, Ring, DTMF, Data. Security: encrypted communications, AES 128-bit and AES 256-bit supported encryptions, independent passphrase programming for each communicator.</p> <p>Self-diagnosis functions: communication vectors, power supply, battery, serial call.</p> <p>Front panel with 6 LED for signaling the operating statuses. Fault output.</p> <p>RSC® management of the device: programming, remote management and control of all operating parameters.</p> <p>On-board flash memory for vocabulary customisation. USB interface.</p> <p>RS485 bus connection. Addressable device. Metal casing. Protection rating IP3x.</p> <p>Battery capability: 1 x 12V-7Ah. Dimensions (L x H x D) 315 x 255 x 82mm. Grey colour.</p> <p>EN 54-21:2006. Certification: 0051-CPR-0454.</p> <p>Item no. TF2TFCOM</p>

<h1>TFESP-4G</h1>	     
	<p>Expansion module for TFCOM telephone communicator. It integrates GSM and LTE telecommunication vectors (4G standard). 16 communication protocols, plus 5 backup protocols for the PSTN vector. Transmission formats: Voice, SMS, Ring, DTMF, Data. Security: encrypted communications, supported 128-bit and 256-bit AES encryption, independent passphrase programming for each communicator. The module manages the VoLTE service (high resolution voice calls). Plug-in mounting on TFCOM board. EN 54-21:2006. Certification: 0051-CPR-0454.</p> <p>Item no. TF2TFESP4G</p>



TELECOMMUNICATION INTERFACE

The TFCLLOUD telecommunication interface connects Tecnofire Automatic Fire Detection Systems to services residing on Tecnofire Cloud servers. The device, equipped with IP and LTE telecommunication vectors, coordinates, via the Tecnofire PWA app, the command, control and management activities from remote locations (personal computers, tablets and smartphones) of installers, maintenance engineers and end users. The synergy of the TFCLLOUD module, the Tecnofire PWA app and the Tecnocloud services, forms an integrated management system that offers the best solutions for Tecnofire systems.

<div>NEW</div> <div>TFCLLOUD</div>			<div>EN 54-1</div>		<div>PWA SYSTEM MANAGEMENT Tecnofire</div>	<div>4G LTE</div>		<div>SELF- POWERED</div>	<div>ABS BOX</div>
		<p>Telecommunications interface reserved for carrying out all control, monitoring and maintenance management activities, of Tecnofire automatic fire detection systems. All activities performed by the TFCLLOUD interface are managed with the Tecnofire Progressive Web App.</p> <p>The device integrates IP and 4G LTE telecommunications vectors. The two vectors can operate alternatively or in backup mode.</p> <p>Cloud-Fire proprietary TCP/IP communication protocol. Security: encrypted communications, TLS supported encryption. Jamming protection.</p> <p>Self-diagnosis functions of: functional status of communication vectors, power supply, battery and serial dialogue of the module with the managed system.</p> <p>Front panel with 6 signalling LED providing a synoptic overview of device operating status. Specialised fault signalling output.</p> <p>RSC® management of the device: programming, remote management and control of all operating parameters. Self-powered device equipped with backup batteries. RS485 bus connection. Protection rating IP3x. ABS casing. White colour. Dimensions (L x H x D) 182 x 207 x 52.5mm. Antenna height 80mm. Standard reference EN 54-1.</p>							
		Item no. TF2TFCLLOUD							

TECNOFIRE PWA

The Tecnofire Progressive Web App allows remote access to Tecnofire Detection Systems with any device that has a web browser. The Tecnofire PWA is compatible with all Tecnofire systems equipped with the TFCLLOUD telecommunications interface. The new cloud services available with the "Tecnofire" app simplify and speed up the management of the systems.

Access to the app and its functions is regulated by the account administrator, who is responsible for assigning or revoking roles and permissions for the operators in his company.

The administrator can assign tasks to operators directly from the App. The prior definition of roles and usage configurations for the services offered by the Tecnofire platform creates different usage profiles for the various professionals who work on the systems.

Installers and maintenance personnel can access the functions of the App according to their specific needs and skills.

Even end users who have been delegated the operational management of the System will appreciate the simplicity and speed of interaction with the System's operating functions. Maintenance personnel can make use of the 'Maintenance Plan' function developed in compliance with the regulations, which is dedicated to the automatic calculation of the schedule that regulates activities and interventions during the execution of scheduled periodic tests.

A function that simplifies and drastically reduces the time dedicated to planning and organising maintenance operations.

Scheduled test sessions are carried out with the assistance of the execution indications provided by the App, which at the end collects all the information and automatically draws up the relative report.

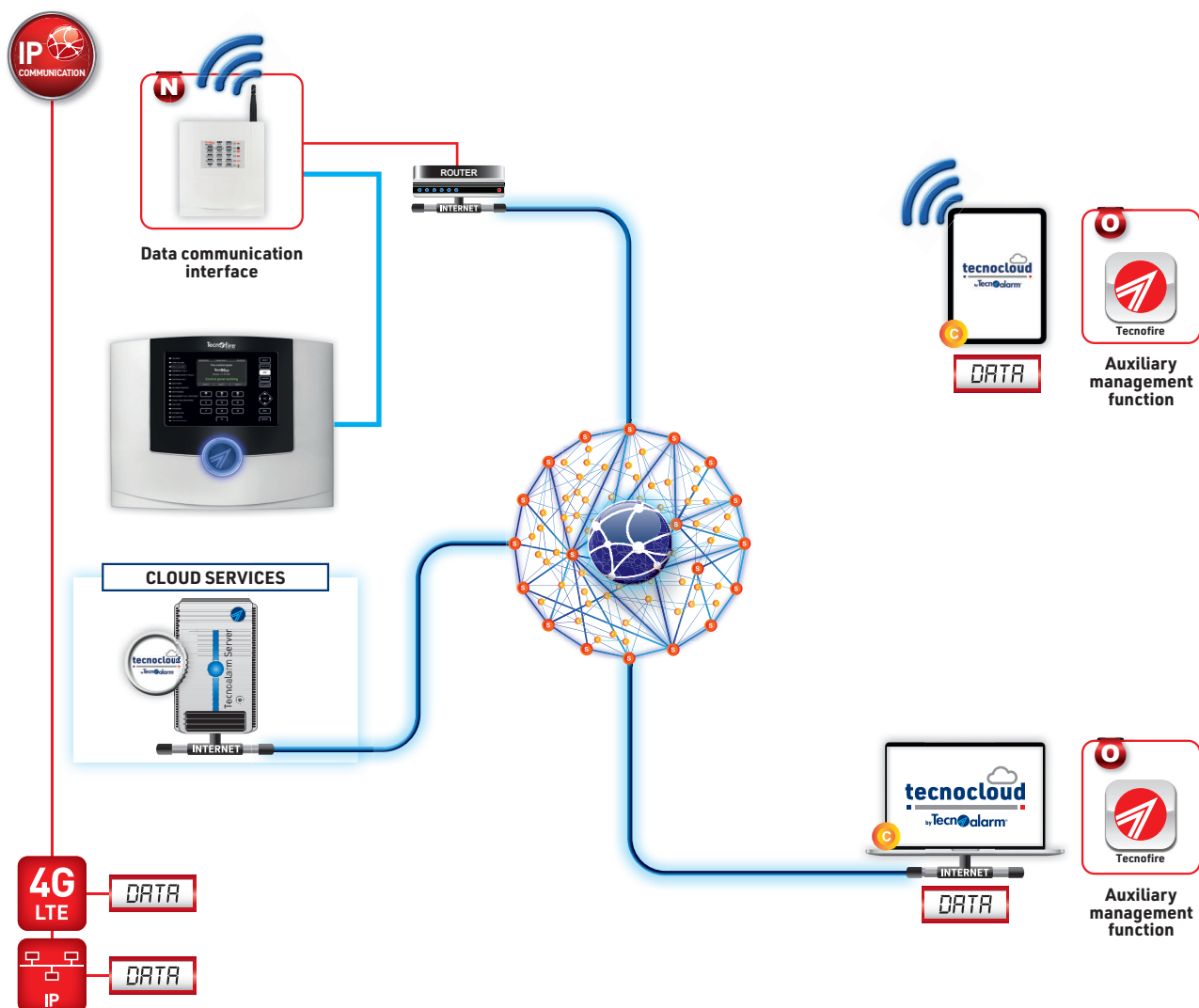
The availability of refined proprietary diagnostic tools based on RSC® technology offers installers and maintenance personnel the possibility of accessing and monitoring the operating parameters of each individual device that makes up the installation without the need to travel to the site where the System is installed.

During the session, operators can consult and verify in real time the operating events of the System, broken down by category.

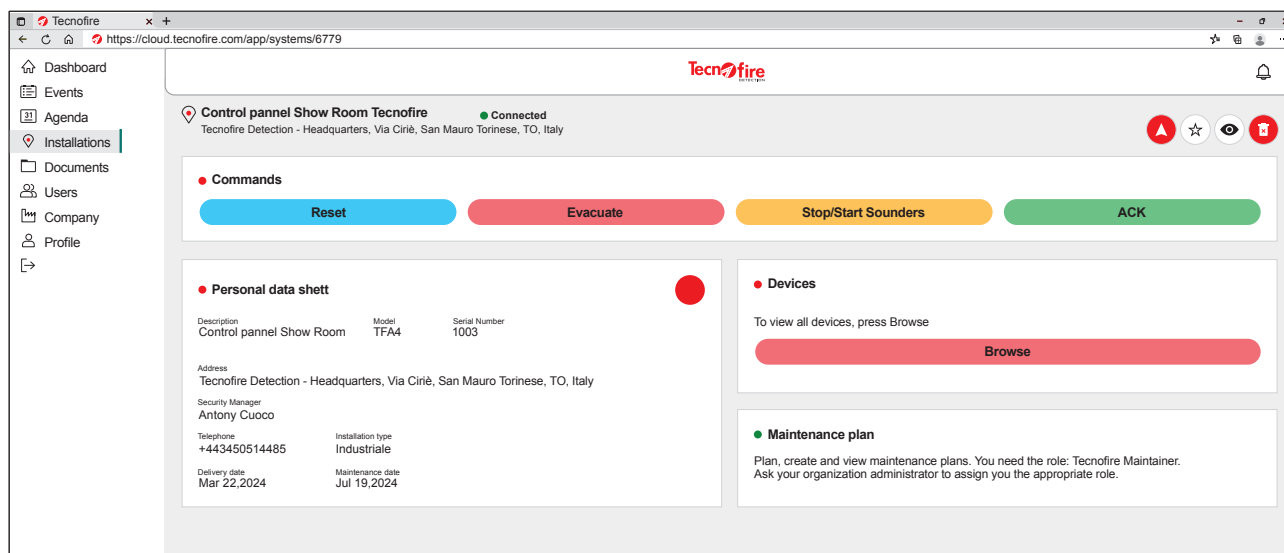


QRCode to access PWA Tecnofire.
<https://cloud.tecnofireddetection.com/app>

TFCLLOUD COMPATIBILITY	TFA1-298	TFA2-596	TFA4-1192	TSA1
	✓	✓	✓	✓

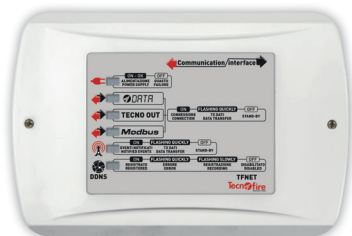


Tecnofire PWA



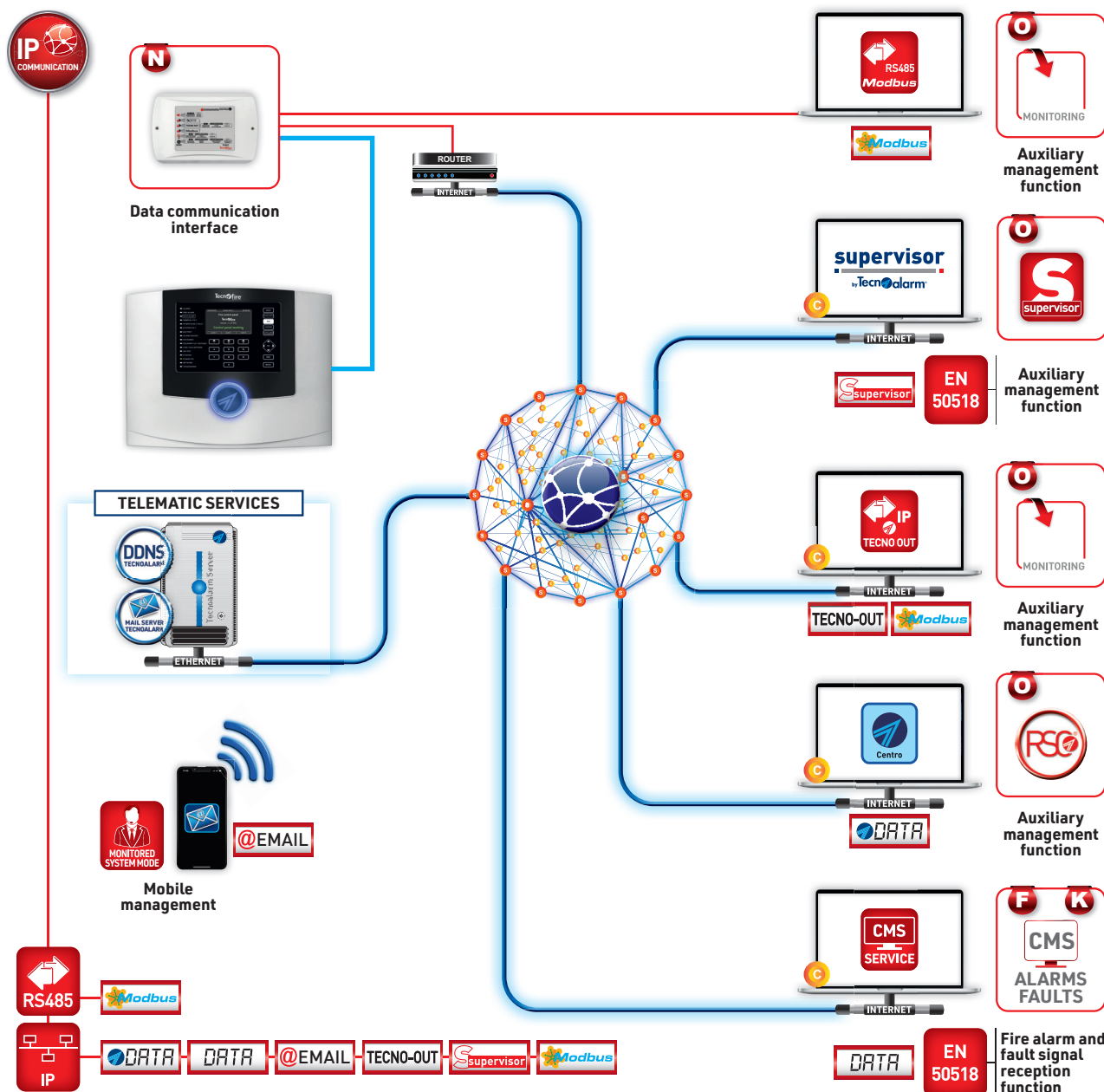
The screenshot shows the Tecnofire PWA interface. The top navigation bar includes links to Dashboard, Events, Agenda, Installations, Documents, Users, Company, and Profile. The main content area displays the 'Control pannel Show Room Tecnofire' with a 'Connected' status. Below this, there are four buttons: Reset, Evacuate, Stop/Start Sounders, and ACK. A 'Personal data shett' section provides details about the installation, including the description, model (TFA4), serial number (1003), address, security manager (Antony Cuoco), telephone number, installation type (Industriale), delivery date (Mar 22, 2024), and maintenance date (Jul 19, 2024). A 'Devices' section includes a 'Browse' button. A 'Maintenance plan' section explains the role of a Tecnofire Maintainer.

TFNET



IP vector telecommunication device. 8 communicators/channels dedicated to event telematic activities and 6 TCP/IP telecommunication channels dedicated to remote control and management activities.
Integrated option for the Tecnoalarm Supervisor remote management environment.
Event notification: 33 categories of General Association, 5 categories of Specific Association to System zones.
Functional associations: 2 IP addresses for each communicator. 11 Communication protocols.
Transmission formats: Data, and Email.
Security: encrypted communications, AES 128-bit and AES 256-bit supported encryptions, independent passphrase programming for each communicator.
Automatic diagnostic functions: communication vector, power supply, serial call.
Front panel with 6 LED signaling operating statuses.
RSC® management of the device: programming, remote management and control of all operating parameters. RS485 bus connection. Protection rating IP3x. ABS casing. White colour.
Dimensions (L x H x D) 165 x 110 x 41mm. Standard reference EN 54-1

Item no. TF2TFNET











Addressable detectors








The Tecnofire addressable detector range consists of point smoke and heat detectors, linear optical smoke detectors and aspirating smoke detectors.

DETECTORS	TFDA-STR2 Combined	TFDA-S2 Optical	TFDA-TR1 Rate-of-rise	TFMIID-120 Linear optical	TF-ONE AIR AD Aspirating smoke
Sensitivity levels	Normal - Low - High	Normal - Low - High	-	Prealarm threshold Alarm Threshold	Prealarm threshold Alarm Threshold
Detection class	-	-	-	-	A - B - C
Thermal class	A1-58°	-	A1-58° A2-68° / B-78°	-	-
Suffix	R	-	R o S	-	-
Prealarm management	Si	-	-	Si	Si
Accessories managed with the formula	TFBASE-SIREN TFRIP-SMART	TFBASE-SIREN TFRIP-SMART	TFBASE-SIREN TFRIP-SMART	TFRIP-SMART	TFRIP-SMART
Functions managed by the formula	-	-	-	Double the thresholds or disable the Prealarm	Switching off engines or disable the Prealarm
Formula criteria	1	1	1	3	3
Configurable detector	Addressable or conventional	Addressable or conventional	-	-	-











Optical smoke detectors

NEW	TFDA-S2							
	 <p>Configurable optical smoke detector, can be used with analogue addressed or conventional control panels. Optical smoke detection technology Tyndall effect. The detector integrates an NFC transceiver with which, by means of a smartphone and Tecnofire ID App, it is possible to configure the device and view: identification data, the alarm counter, the graph of the last alarm detected and the data required to manage the detector review service. Maximum analysis precision of smoke captured. Control and dynamic compensation of optical chamber sensitivity, automatic management of maintenance threshold. Programmable functions: 3 sensitivity levels, formula association and management criteria for TFBASE-SIREN or TFRIP-SMART. Detector functional states can be used as operands in conditioning formulas controlled by the control panel. RSC® management: programming, remote management and control. Double line isolator. Universal base mounting TFBASE01. Protection rating IP22. ABS casing. Available colours white or black. Dimensions with mounting base (D x H) 100 x 52mm. EN 54-7:2018 - EN 54-17:2005. Certification: 0051-CPR-3134.</p>							
	Item no. TF3TFDAS2BK (black)							
	Item no. TF3TFDAS2 (white)							



Rate-of-rise detector

TFDA-TR1						
 <p>Addressable rate-of-rise detector. Maximum precision in determining the ambient temperature. Programmable functions: thermal class: A1-58° / A2-68° / B-78°, rate-of-rise suffix: R or S, formula and management criteria association for TFBASE-SIREN or TFRIP-SMART. The operating statuses of the detector can be used as operands in the formulas managed by the control panels. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Mounting with universal base TFBASE01. Protection rating IP22. ABS casing. White colour. Dimensions with base (D x H) 100 x 52mm. Approved EN 54-5:2017 + A1:2018 - EN 54-17:2005. Certification: 1293-CPR-0526 rv.1</p>						
Item no. TF3TFDATR1						

Combined optical smoke and heat detector

NEW	TFDA-STR2										
											
		<p>Configurable combined detector, can be used with analogue addressed or conventional control panels. The detector consists of two separate and independent detection sections, an optical smoke detector and a Class A1-58°, Suffix R thermal detector.</p> <p>The detector integrates an NFC transceiver with which, by means of a smartphone and the Tecnofire ID App, it is possible to configure the device and view: identification data, the alarm counter, the graph of the last alarm detected (optical detector only) and the data required to manage the detector review service. Maximum precision in temperature detection and analysis of smoke captured by the optical chamber.</p> <p>Control and dynamic compensation of optical chamber sensitivity, automatic maintenance threshold management. Programmable functions: 3 sensitivity levels, excludable prealarm signalling, excludable optical detection section, formula association and management criterion for TFBASE-SIREN or TFRIP-SMART.</p> <p>The functional states of the detector can be used as operands in the formulas managed by the control panel. RSC® management: programming, remote management and control.</p> <p>Double line isolator. Universal base mounting TFBASE01. Protection rating IP22. ABS casing. Available colours white or black. Dimensions with mounting base (D x H) 100 x 52mm.</p> <p>EN 54-7:2018 - EN 54-5:2017 + A1:2018 - EN 54. Certification: 0051-CPR-3</p>									
Item no. TF3TFDASTR2 (white)											
Item no. TF3TFDASTR2BK (black)											










Mounting bases

NEW	TFBASE-SIREN					
	<p>Detector mounting base with integrated acoustic signalling device. The base can be used to host Tecnofire addressable detectors. Base and detector share the same programming menu, but have no operational interdependence. The activation of the acoustic signal is subject to the result of the management formula associated with the detector. The silencing of the acoustic signal depends on the operating criterion used. Programmable functions: 8 sound modes, volume adjustment 2 levels, 3 operating criteria. RSC® management: programming, remote management and control. Protection rating IP22. Polycarbonate V0 casing. White colour. Dimensions (D x H) 108 x 52mm. Approved EN 54-3:2001 + A1:2002 + A2:2006. Certification: 1293-CPR-0906.</p>					
Item no. TF6TFBASESIREN						


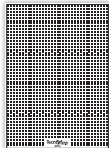
	TFBASE01	Mounting base for detectors and sirens TFI01, TFI02. ABS material. White colour. Dimensions (D x H) 100 x 19mm.
		Item no. TF6TFBASE01N (white)
		Item no. TF6TFBASE01BKN (black)

	TFBOX-SB	Junction box for mounting base TFBASE01. Circular shape with 2 flat walls, pre-marked plugs for mounting 2 PG9 pipe sockets in opposing or side-by-side arrangement. Profile with condensation protection. Degree of protection of TFBOX-SB IP44. Casing in ABS. Colour white. Dimensions (D x H) 121 x 36mm.
		Item no. TF5TFBOXSB

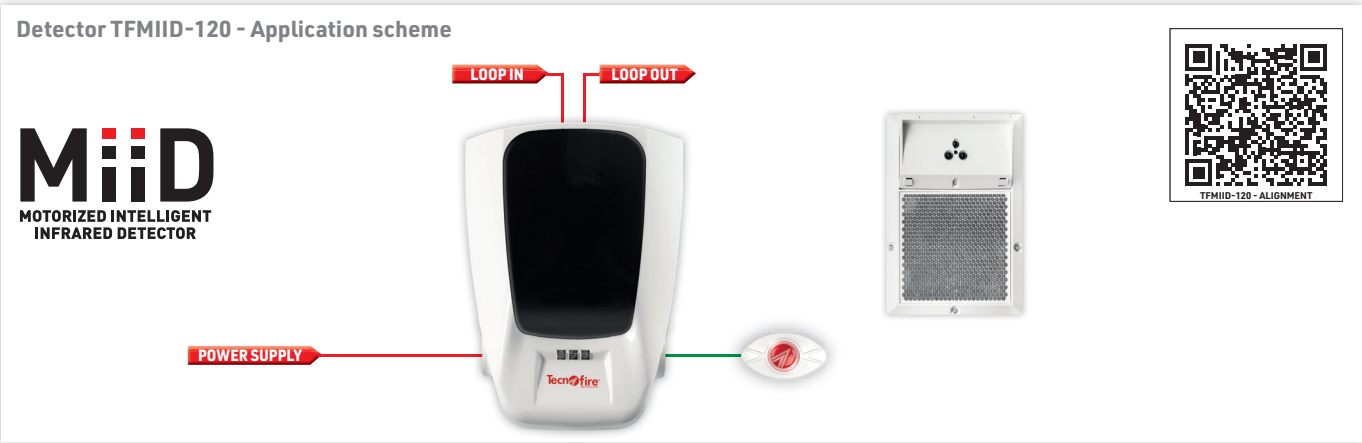
Linear optical detectors

TFMIID-120	       
	<p>Addressable smoke detection system, linear optical reflection type. Optical attenuation detection technology of the reflected infrared beam. The TFMIID-120 detector is equipped with an OAS (Optical Alignment System) automatic servo-assisted alignment system, covered by an international patent. System composed of two devices, the detection and control panel and the reflection and telemetry unit. Optical range 8...50m, extendable to 120m with optional additional reflector TFMIID120-LRK. Automatic compensation for optical deterioration due to dust deposits. Excellent tolerance to vibration disturbances. High false alarm immunity. Programmable functions: prealarm and alarm signal thresholds, alarm and fault signal delays. Advanced management with adaptive detection logic, day/night mode, determined by formulas, which dynamically relate the operating statuses of the system devices. Fully automatic alignment managed remotely, by the control panel menu, without acting on the control and reflection units. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Power supply: 24V DC detection unit from external source, Lithium battery telemetry device power supply. Protection rating IP3x. Operating temperature -10°C...+55°C. PC-ABS casing. White colour. Dimensions (L x H x D): detection unit 198 x 262 x 98mm, reflection unit 124 x 284 x 55. Approved EN 54-12:2015 - EN 54-17:2005. Certification: 1293-CPR-0816.</p>
Item no. TF9TFMIID120	

TFMIID - Accessories

	<p>TFMIID120-LRK</p> <p>Range extender kit consisting of an additional reflection panel. The kit allows you to extend the optical range of the TFMIID-120 barrier from 50 to 120m.</p>		<p>TFMIID-TEST</p> <p>Graduated filter for the blackout test of the TFMIID-120 linear optical detector.</p>
Item no. TF9TFMIID120LRK		Item no. TF9TFMIIDTEST	

Detector TFMIID-120 - Application scheme



MiID
MOTORIZED INTELLIGENT
INFRARED DETECTOR











POWER SUPPLY

LOOP IN



LOOP OUT

TFMIID-120 - ALIGNMENT


Aspirating smoke detector

NEW	TF-ONE AIR AD									
		<p>Addressable aspirating air sampling unit. Optical detection chamber with laser technology. Normal sensitivity from 0.5%...1% obs/m. Detection sensitivity can be increased with optional software Plug-ins. Sensitivity class: A, B, C. Coverage 1 zone, maximum 1600m2. The sensitivity class and number of sampling holes are determined by the Tecno ASD aspiration network dimensioning software. The software determines the characteristics of the aspirating network and the programming of the device according to the application. Control and dynamic compensation of detection chamber sensitivity, automatic air filter control. Detector monitoring with repeater panel. RS485 serial bus for connecting TFT-4.3C repeater panels. Programmable functions: Prealarm and Alarm signalling thresholds, alarm signalling delay, aspirating air speed. Signalling interface consisting of 6 LED. Advanced management with adaptive detection logic, day/night mode, determined by formulas, which dynamically relate the operating statuses of the system devices. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Power supply from external 24V DC source. Air temperature -20°C...+60°C. Protection rating IP3x. ABS casing. Grey colour. Dimensions (L x H x D) 260 x 252 x 110mm. EN 54-20:2006 - EN 54-17:2005.</p>								
Item no. TF26TFONEAIRAD		Detector also available in conventional version								

SOFTWARE PLUG-INS

TFABIL-S01	Software plug-ins to upgrade detection sensitivity scale from Normal to Increased. Prealarm and Alarm thresholds programmable from: 0.1%...1% obs/m. Sensitivity class and sampling holes determined by Tecno ASD software.	
	Item no. TF26TFABILS01	
TFABIL-S005	Software plug-ins for upgrading the detection sensitivity scale from Increased to High. Prealarm and Alarm thresholds programmable from: 0.05%...1% obs/m. Sensitivity class and sampling holes determined by Tecno ASD software.	
	Item no. TF26TFABILS005	

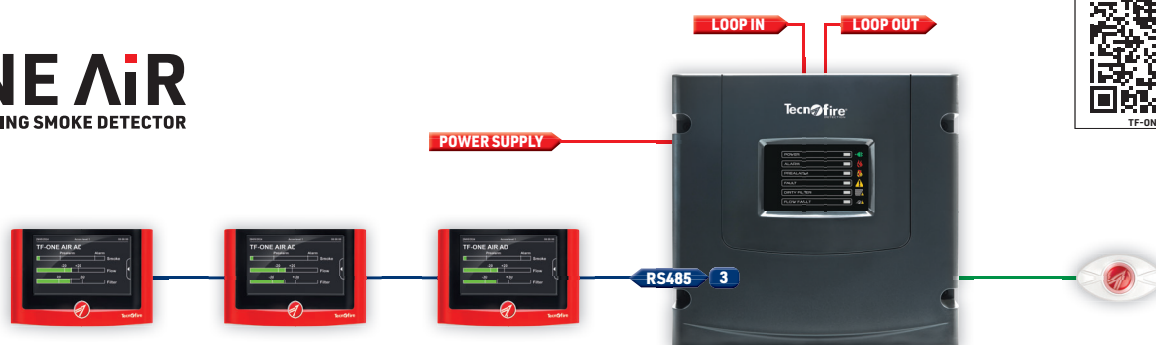
TF-ONE AIR AD - Accessories

	TFFT-ONE AIR
	Replacement filter box for TF-ONE AIR. Filter consisting of two filtrating cells: 30 PPI + 75 PPI. Sealed ABS housing.
Item no. TF26TFFTONEAIR	






Detector TF-ONE AIR AD - Application scheme

ONE AIR




ASPIRATING SMOKE DETECTOR







Analysis chamber for ducts

TFDA-DUCT					
	<p>Analysis chamber for ventilation and air conditioning ducts. Venturi tube operating principle, sampling mode, single tube with double duct for air intake and discharge.</p> <p>The analysis chamber is equipped with TFBASE01 connection base, for TFDA-S2 optical smoke detector.</p> <p>Protection rating IP54. ABS casing. Grey colour. Dimensions (L x H x D) 165 x 279 x 83mm.</p> <p>The device must be equipped with: TFDA-S2 detector and sampling tube of appropriate length.</p> <p>Approved EN 54-27.</p>				
	Item no. TF3TFDADUCT				

TFDA-DUCT - Accessories

	TFTUBO-DUCT 60 TFDA-DUCT accessory. Sampling tube with dual duct for air intake and discharge, length 60cm.		TFTUBO-DUCT 150 TFDA-DUCT accessory. Sampling tube with dual duct for air intake and discharge, length 150cm.
	Item no. TF3TFTUBODUCT60		Item no. TF3TFTUBODUCT15
	TFCOVER-DUCT TFDA-DUCT accessory. Protective cover for TFDA-DUCT, in polycarbonate with internal insulation in polyethylene foam. Dimensions (L x H x D) 292 x 460 x 122mm.		
	Item no. TF3TFCOVERDUCT		

ADDRESSED DETECTORS - Accessories

	TFBOX-B Junction box for fixing a detector base. Fittings for 20mm tubes. ABS casing. White colour. Dimensions (D x H) 101 x 38mm.		TFRIP-R Optical repeater, red LED. 360° visibility. Surface mounting. ABS casing. IP22. White colour. Dimensions (L x H x D) 78 x 45 x 25mm.
	Item no. TF6TFBOXB		Item no. TF3TFRIPR
	TFRIP-R INC Optical repeater, red LED. 360° visibility. Flush mounting. Protection rating IP67.		TFRIP-SMART Smart optical repeater, red LED. 360° visibility. Formula-managed signaling. 3 wire connection to detector. ABS casing. IP22. Colour white. Dimensions (W x H x D) 78 x 45 x 25mm.
	Item no. TF3TFRIPRINC		Item no. TF3TFRIPSMART



Addressable modules







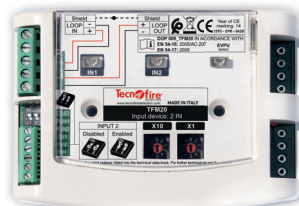
The Tecnofire range of addressed modules consists of input modules, output modules and input/output modules. The modules can consist of one or more logic units. Input logic units can be used as operands, output logic units can be used as operators in algebraic formulas, which are verified by the control panel.








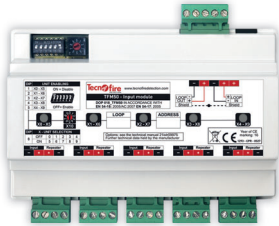
The TFM10 and TFM420MA modules can independently manage Prealarm and Alarm signalling.







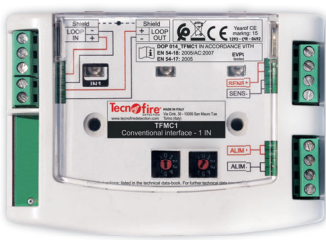
Input modules







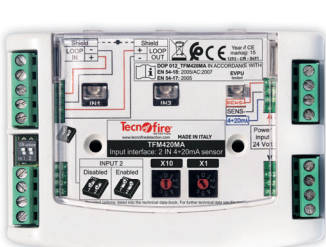
INPUT MODULES	TFM10	TFM20	TFM50	TFMC1	TFM420MA
Composition	1 input	2 inputs	5 inputs	1 conventional input	2 inputs 4-20mA
Addresses used	1 address	2 addresses	5 addresses	1 address	2 addresses
Input type	Alarm Fault	Alarm Fault	Alarm Fault	Prealarm Alarm Fault	Prealarm Alarm Fault
Operating criteria	8	8	8	8	5
Evacuation alarm	Programmable	Programmable	Programmable	Programmable	-
Prealarm management	-	-	-	-	Programmable

TFM10		EN 54-18 54-17	1 INPUT	1 LOGICAL UNIT	OPERAND FORMULA	ABS BOX
	<p>Addressable module with 1 input. Input connection in Alarm or Fault mode. Programmable operating criteria. 1 output per repeater. 1 input status indicator LED. Module operating statuses can be used as operands in formulas. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Surface mounting. Protection rating IP4x. ABS casing. White colour. Dimensions (L x H x D) 69.5 x 49.8 x 17mm (dimension L can be reduced to 49.8mm). Approved EN 54-18:2005/AC:2007 - EN 54-17:2005. Certification: 1293-CPR-0490.</p>					
Item no. TF4TFM10						

<h1>TFM20</h1>	     
	<p>Addressable module equipped with 2 inputs, individually identified by the system. Inputs connection in Alarm or Fault mode. Programmable operating criteria. 2 outputs for repeaters. 2 input status indicator LED. Module operating statuses can be used as operands in formulas. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Fixing on a surface or on a DIN bar with TFDIN accessory. Protection rating IP4x. ABS casing. White colour. Dimensions (L x H x D) 112 x 78 x 25mm. Approved EN 54-18:2005/AC:2007 - EN 54-17:2005. Certification: 1293-CPR-0420.</p>
Item no. TF4TFM20	

TFM50-HP								
	<p>Addressable module equipped with 5 inputs, individually identified by the system. Inputs connection in Alarm or Fault mode. Programmable operating criteria. 5 outputs for repeaters. 5 input status indicator LED.</p> <p>Module operating statuses can be used as operands in formulas. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Fixing on a surface or on a DIN bar. Protection rating IP4x. ABS casing. White colour. Dimensions (L x H x D) 144 x 92 x 71,5mm.</p> <p>EN 54-18:2005/AC:2007 - EN 54-17:2005. Certificato di omologazione: 1293-CPR-0527.</p>							
	<p>Item no. TF4TFM50HP</p>							
TFM50-LP	<p>Addressable module with the same electrical functional characteristics of the TFM50-HP model, but with installation in reduced height casing. Dimensions (L x H x D) 144 x 92 x 38,5mm.</p>							
	<p>Item no. TF4TFM50LP</p>							

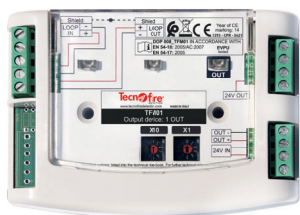
TFMC1							
	<p>Addressable module equipped with 1 input for conventional detectors. Opto-isolated power supply. Programmable functions: Prealarm signaling. 1 input status indicator LED. Module operating statuses can be used as operands in formulas. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Fixing on a surface or on a DIN bar with TFDIN accessory. Protection rating IP4x. ABS casing. White colour. Dimensions (L x H x D) 112 x 78 x 25mm.</p> <p>Approved EN 54-18:2005/AC:2007 - EN 54-17:2005. Certification: 1293-CPR-0492.</p>						
	<p>Item no. TF4TFMC1</p>						

TFM420MA							
	<p>Addressable module equipped with 2 inputs for 4-20mA devices, individually identified by the system. Programmable functions: Prealarm signaling, operating criteria, prealarm threshold, alarm threshold. Criterion for detecting inputs for increasing or decreasing current. 2 outputs for repeaters. 2 input status indicator LED.</p> <p>Module operating statuses can be used as operands in formulas. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Fixing on a surface or on a DIN bar with TFDIN accessory. Protection rating IP4x. ABS casing. White colour. Dimensions (L x H x D) 112 x 78 x 25mm.</p> <p>Approved EN 54-18:2005/AC:2007 - EN 54-17:2005. Certification: 1293-CPR-0491.</p>						
	<p>Item no. TF4TFM420MA</p>						

Output Modules

OUTPUT MODULES	TFM01	TFM05
Composition	1 output	5 outputs
Addresses used	1 address	5 addresses
Output type	Contact Controlled line	Contact Controlled line
Operating criteria	6	6
Delay and activation time	Programmable	Programmable
Formula association	Yes	Yes

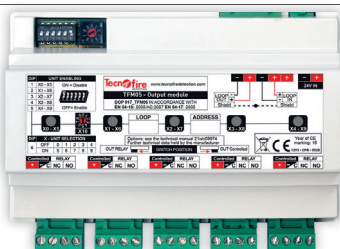
TFM01



Addressable module with 1 output. Output connection in contact mode or controlled line. Programming: operating criteria, activation time and delay. Output activation subject to formula. 1 output status indicator LED. Protected service input for powering external devices. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Fixing on a surface or on a DIN bar with TFDIN accessory. Protection rating IP4x. ABS casing. White colour. Dimensions (L x H x D) 112 x 78 x 25mm. Approved EN 54-18:2005/AC:2007 - EN 54-17:2005. Certification: 1293-CPR-0421.

Item no. TF4TFM01

TFM05-HP



Addressable module equipped with 5 outputs, individually identified by the system. Output connection in contact mode or controlled line. Programming: operating criteria, activation time and delay. Outputs activation subject to formula. 5 output status indicator LED. Protected service inputs for powering external devices. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Fixing on a surface or on a DIN bar. Protection rating IP4x. ABS casing. White colour. Dimensions (L x H x D) 144 x 92 x 71.5mm. Approved EN 54-18:2005/AC:2007 - EN 54-17:2005. Certification: 1293-CPR-0528.

Item no. TF4TFM05HP







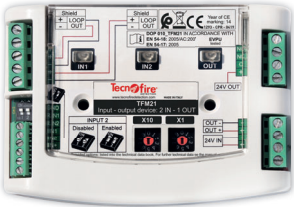
TFM05-LP

Addressable module with the same electrical functional characteristics of the TFM05 -HP model, but with installation in reduced height casing. Dimensions (L x H x D) 144 x 92 x 38.5mm.

Item no. TF4TFM05LP

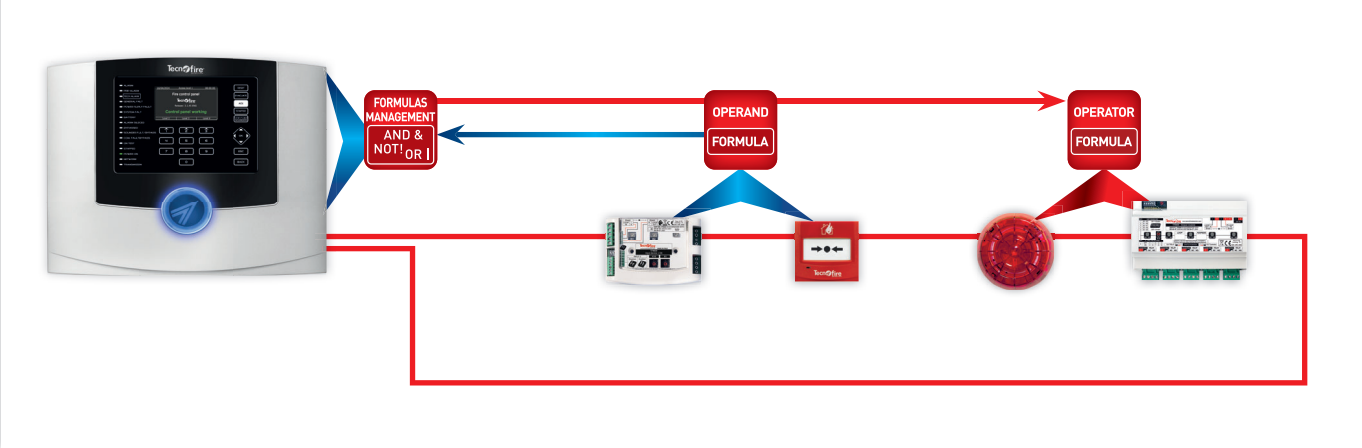
Input/output module

INPUT/OUTPUT MODULE	TFM21		
Composition	2 inputs 1 output		
Addresses used	3 addresses		
Input type	Alarm Fault	Output type	Contact Controlled line
Operating criteria	8	Operating criteria	6
Evacuation alarm	Programmable	Delay and activation time	Programmables
		Formula association	Yes


TFM21	     
	<p>Addressable module equipped with 2 inputs and 1 output, individually identified by the system. Inputs: connection in Alarm or Fault mode, programmable operating criteria. 2 outputs for repeaters. Inputs operating statuses can be used as operands in formulas. Output: connection in contact mode or controlled line. Programming: operating criteria, activation time and delay. Output activation subject to formula. 3 input and output status indicator LED. Protected service input for powering external devices. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Fixing on a surface or on a DIN bar with TFDIN accessory. Protection rating IP4x. ABS casing. White colour. Dimensions (L x H x D) 112 x 78 x 25mm. Approved EN 54-18:2005/AC:2007 - EN 54-17:2005. Certification: 1293-CPR-0419.</p>
Item no. TF4TFM21	

Managing Formulas




The operating statuses of the Tecnofire modules, prealarm, alarm, fault, exclusion, can be used as operands, in the programming of the formulas managed by the control panels. The formulas, through logical operators, relate the operating statuses of the devices indicated as operands. The control panel verifies the criteria set out in the formula and, if it considers it satisfied, implements the outputs and activates the associated optical-acoustic alarm devices.






ADDRESSABLE MODULE - Accessories





	<p>TFDIN</p> <p>Support bracket for mounting standard format addressable modules, on DIN omega bar. ABS material. White colour.</p> <p>Item no. TF5TFDIN</p>		<p>TFRIP-V</p> <p>Optical repeater, green LED. 360° visibility. Surface mounting. ABS casing. IP22. White colour. Dimensions (L x H x D) 78 x 45 x 25mm.</p> <p>Item no. TF3TFRIPV</p>
	<p>TFBOX-M</p> <p>Junction box with fixing templates for addressable modules. ABS casing. White colour. Dimensions (L x H x D) 136 x 136 x 63mm.</p> <p>Item no. TF5TFBOXM</p>		<p>TFRIP-R</p> <p>Optical repeater, red LED. 360° visibility. Surface mounting. ABS casing. IP22. White colour. Dimensions (L x H x D) 78 x 45 x 25mm.</p> <p>Item no. TF3TFRIPR</p>
	<p>TFRELE-230</p> <p>Relay module for managing 230V AC electrical loads. Command serviced by an output module. 5A maximum over contact load. Dimensions (L x H x D) 66 x 95 x 29mm.</p> <p>Item no. TF5TFRELE230</p>		<p>TFRIP-G</p> <p>Optical repeater, yellow LED. 360° visibility. Surface mounting. ABS casing. IP22. White colour. Dimensions (L x H x D) 78 x 45 x 25mm.</p> <p>Item no. TF3TFRIPG</p>
			<p>TFRIP-R INC</p> <p>Optical repeater, red LED. 360° visibility. Flush mounting. Protection rating IP67.</p> <p>Item no. TF3TFRIPRINC</p>

Manual alarm call points















TFCP			EN 54-11 54-17	TYPE A		1 LOGICAL UNIT	OPERAND FORMULA	IP44	PC BOX
		Addressable resettable call point, for manual fire alarm signaling. Manual operation, Type A (direct). Module operating statuses can be used as operands in formulas. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Installation method: with piping in visible execution with pipe box, with piping in sub-track execution, on flush box 502, or, on flush box 503 with optional base TFCP-FRAME. Supplied accessories: tube box, opening key and reset button. Indoor use. Protection rating IP44. Polycarbonate casing V0. Red colour. Dimensions (L x H x D) 93 x 88 x 41 mm. With the tube box the dimension D becomes 76 mm. Approved EN 54-11:2001+A1:2005 - EN 54-17:2005. Certification 1293-CPR-0662.							
TFCP		Item no. TF5TFCP (red)							
TFCP-MR		Item no. TF5TFCPMR (yellow) - product not complying with EN 54							
TFCP-ES		Item no. TF5TFCPES (blue) - product not complying with EN 54							
TFCP-AB		Item no. TF5TFCPAB (green) - product not complying with EN 54							

TFCP-IP55			EN 54-11 54-17	TYPE A		1 LOGICAL UNIT	OPERAND FORMULA	IP55	PC BOX
		Addressable resettable call point, for manual fire alarm signaling. Manual operation, Type A (direct). Module operating statuses can be used as operands in formulas. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Installation mode: with piping in visible execution with tube box. Supplied accessories: tube box, opening key and reset button. Outdoor use. Protection rating IP55. Polycarbonate casing V0. Red colour. Dimensions with tube box (L x W x D) 93 x 88 x 76 mm. Approved EN 54-11:2001+A1:2005 - EN 54-17:2005. Certification 1293-CPR-0807.							
TFCP-IP55		Item no. TF5TFCPIP55 (red)							
TFCP-IP55 MR		Item no. TF5TFCPMRIP55 (yellow) - product not complying with EN 54							
TFCP-IP55 ES		Item no. TF5TFCPESIP55 (blue) - product not complying with EN 54							
TFCP-IP55 AB		Item no. TF5TFCPABIP55 (green) - product not complying with EN 54							











MANUAL ALARM CALL POINTS - Accessories

	TFCP-COP Transparent anti-vandal cover with anti-opening clamp, for TFCP-C and TFCP IP55 series call points. Pack: 10 pieces.		TFCP-KEY Opening and reset key for TFCP-C and TFCP IP55 series call points. Pack: 10 pieces.
	Item no. TF5TFCOPCP		Item no. TF5TFKEYCP
	TFCP-FRAME Adapter for mounting TFCP-C series call points on 503 flush box. Pack: 5 pieces.		TFCP-PLEXI Plexiglass location sign, with push-button lock, reversible position. Conforms to UNI EN ISO 7010. Dimensions (L x H) 153 x 153 mm.
	Item no. TF5TFCPFRAME		Item no. TF5TFCPPX









Optical-acoustic panels











TFPANM-AI	        
	<p>Optical-acoustic fire alarm panel, VAD category W. Optical coverage W-4.6-7.7, volume 272m3. Sound pressure 99dB(A) @ 1m. Type A for indoors. Dual address for operation duplication. Programmable functions: 6 operating criteria, 8 sound modes, activation time and delay, flashing and/or acoustic signal can be excluded. Optical synchronised signaling. Signaling activation subject to formula. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Semi-flush mounting on box type 503 or on surface via TFBOX-P accessory. 24V DC power supply from external source. Maximum consumption 65 mA. Protection rating IP21C. ABS casing. White colour. Semi-flush mounting dimensions (L x W x D) 373 x 150 x 33mm. Approved EN 54-3:2001 + A2:2006 - EN 54-23:2010 - EN 54-17:2005. Certification: 0051-CPR-0532.</p> <p>Item no. TF5TFPANMAI-UK</p>
	<p>TFPANM-AC</p> <p>Panel with the words "ALARM IN PROGRESS". Technical characteristics equal to the TFPANM-AI model.</p> <p>Item no. TF5TFPANMAC-UK</p>
	<p>TFPANM-EL</p> <p>Panel with the words "PLEASE EVACUATE". Technical characteristics equal to the TFPANM-AI model.</p> <p>Item no. TF5TFPANMEL-UK</p>
	<p>TFPANM-VE</p> <p>Panel with the words "DO NOT ENTER EXTINGUISHING IN PROGRESS". Technical characteristics equal to the TFPANM-AI.</p> <p>Item no. TF5TFPANMVE-UK</p>
	<p>TFPANM-AG</p> <p>Panel with the words "GAS ALARM". Technical characteristics equal to the TFPANM-AI model.</p> <p>Item no. TF5TFPANMAG-UK</p>

High-power optical-acoustic alarm devices






TFIES03	        
	<p>Addressable high-power optical-acoustic alarm device, for VAD fire alarm signal, category 0 (Open class). Optical coverage 0-5.5-3.2-7.7, volume 135m3. Sound pressure 115dB(A) @ 1m. Type B for outdoor use. Dual address for operation duplication. Programmable functions: 6 operating criteria, 64 sound modes, volume adjustment 2 levels, end-of-alarm tone, activation time and delay, flashing and/or acoustic signal can be excluded. Optical synchronised signaling. Signaling activation subject to formula. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. External power supply. Protection rating IP65. Operating temperature -25°C...+70°C. PC-ABS casing. White optical diffuser colour. Dimensions (L x H x D) 198 x 262 x 98mm. EN 54-3:2001 + A1:2002 + A2:2006 - EN 54-23:2010 - EN 54-17:2005.</p> <p>Item no. TF5TFIES03</p>

Optical-acoustic alarm devices




TFIS01	      
	<p>Optical-acoustic warning device for signaling fire alarm VID. Sound pressure 102dB(A) @ 1m. Type A for indoors. Dual address for operation duplication. Programmable functions: 6 operating criteria, 64 sound modes, volume adjustment 2 levels, activation time and delay, flashing excluded, activation. Signaling activation subject to formula. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Mounting with universal base TFBASE01. Protection rating IP22. Operating temperature -15°C...+70°C. PC-ABS casing. Red or white optical diffuser colour. Dimensions (D x H) 120 x 65mm. Approved EN 54-3:2001 + A1:2002 + A2:2006 - EN 54-17:2005. Certification: 1293-CPR-0422.</p> <p>Item no. TF5TFIS01 (Optical diffuser red)</p> <p>Item no. TF5TFIS01W (Optical diffuser white)</p>

TFIES02	        
	<p>Optical-acoustic warning device for VAD fire alarm signal, category 0 (Open class). Optical coverage 0-4.6-2, volume 9.2m³. Sound pressure 101dB(A) @ 1m. Type B for outdoor use. Dual address for operation duplication. Programmable functions: 6 operating criteria, 64 sound modes, volume adjustment 2 levels, end-of-alarm tone, activation time and delay, flashing and/or acoustic signal can be excluded. Optical synchronised signaling. Signaling activation subject to formula. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Mounting with universal base TFBASE01. Protection rating IP33C. Operating temperature -25°C...+70°C. PC-ABS casing. White optical diffuser colour. Dimensions (D x H) 120 x 65mm. Approved EN 54-3:2001 + A1:2002 + A2:2006 - EN 54-23:2010 - EN 54-17:2005. Certification: 1293-CPR-0825.</p> <p>Item no. TF5TFIES02</p>

OPTICAL-ACOUSTIC ALARM DEVICES - Accessories

	<p>TFBASE01</p> <p>Mounting base for sirens TFIS01 and TFIES02. ABS material. White colour. Dimensions (D x H) 100 x 19mm.</p> <p>Item no. TF6TFBASE01N</p>		<p>TFBOX-SBWP</p> <p>Junction box for mounting base TFBASE01. With additional seal for mounting siren module TFIES02. Plugs for mounting 2 PG9 pipe sockets. Plug for plexiglass signage. Protection rating of TFBOX-SBWP IP65. ABS casing. Colour white. Dimensions (D x H) 121 x 40mm.</p> <p>Item no. TF5TFBOXSBWP</p>
	<p>TFIS01-PLEXI IT</p> <p>Plexiglass signage, with mounting location for TFIS01 and TFIES02 sirens. With the words "FIRE ALARM". Dimensions (L x H) 360 x 121mm.</p> <p>Item no. TF5TFIS01PX-UK</p>		<p>TFIS01-PLEXI EL IT</p> <p>Product with English text not available.</p> <p>Not available</p>
			<p>TFBOX-P</p> <p>Mounting base for TFAPANM panel. Fittings for 20mm tubes. Wall or box 503 mounting. ABS material. White colour. Dimensions (L x H x D) 373 x 150 x 63mm.</p> <p>Item no. TF5TFBOXP</p>

Power supply unit

TFPS-5			EN 54-4 54-17	EN 12101-10	27.6V 5A	3 OUTPUTS 1.1A	1 LOGICAL UNIT	
	<p>Additional addressable power supply unit. EN 54-4 approved for the supply of fire detection and alarm systems for buildings. EN 12101-10 approved for the supply of smoke and heat evacuation equipment and systems and smoke control systems. Power supply voltage 230V AC. Rated output data: voltage 27.6V DC maximum current 5A. The unit is equipped with 3 independent outputs for the power supply of utilities. Each output delivers a maximum current of 1.1A. Automatic testing and battery release functions for deep discharge. Front control panel with 6 operating status LED. Fault signal output: free changeover relay. Casing for 2 x 12V 17Ah buffer batteries. RSC® management: programming, remote management and control. Loop connection. Dual short-circuit isolator. Operating temperature -5°C...+40°C. Protection rating IP3x. Metal casing. Black colour. Dimensions (L x H x D) 320 x 365 x 170mm. Approved EN 54-4:1997 + A1:2002 + A2:2006 - EN 54-17:2005. EN 12101-10 Certification: 0051-CPR-0432.</p> <p>Item no. TF5TFPS5</p>							

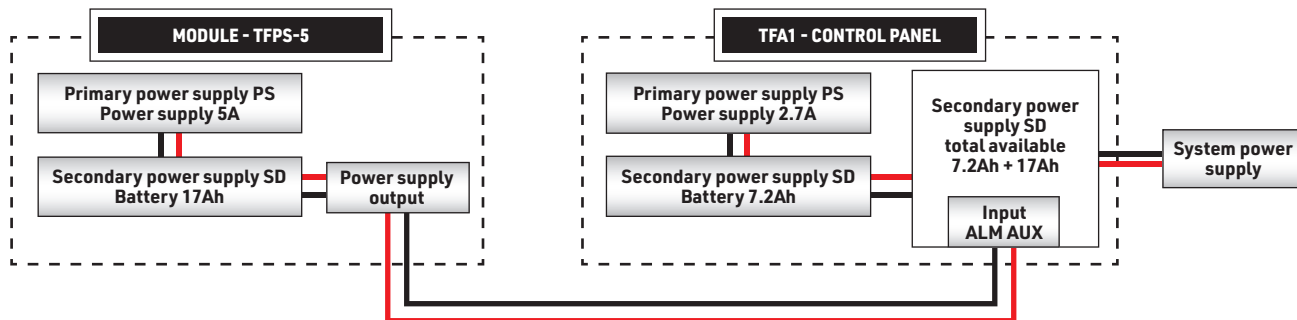
SYSTEM AUTONOMY

Fire detection systems in case of absence of primary power supply from the mains must guarantee the hours of autonomy of operation, prescribed by the respective national regulations.

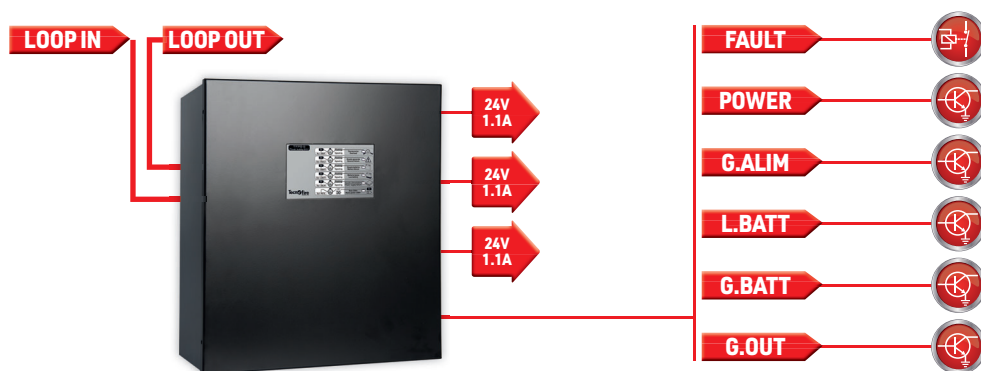
The operating autonomy of the system is guaranteed by the secondary power supply, consisting of the backup batteries.

If the batteries housed in the control panel cannot guarantee the required operating autonomy, it is possible to boost the secondary power supply by adding one or more TFPS-5 supplementary power supply units.

The TFPS-5 power supply unit connected to the detection loop is supervised by the control panel, its power output is connected to the auxiliary power input available on all Tecnofire control panels.



Module TFPS-5 - Application scheme



supervisor

by Tecnoalarm®



The Supervisor by Tecnoalarm software is a versatile supervision platform, with a modular architecture, easily configurable thanks to the wide range of plug-ins and license options. Supervisor is available in two operating configurations:

Supervisor and Supervisor plus.

Supervisor represents the best supervision solution in any application context, from a simple system composed of a control panel to more complex system architectures. The Supervisor platform realises the perfect operational synergy between the Supervisor System and the Tecnoalarm and Tecnofire Security and Automatic Fire Detection Systems, standing as a sure reference for the systems supervision market, in the areas of:

Safety, Security and Smart building.

Server licenses

Four Server Licenses make it possible to manage any supervisory context, from a single control panel to more complex and articulated system realities.

Additional licenses

Additional licenses allow the supervisory software to be extended along with the application context, to provide solutions to new management and configuration needs.



















License options

Optional license allow you to implement Supervisor software with extra functions and services such as: viewing IP camera video streams, managing Client workstations with multiple monitors, applying management rules to multiuser systems.

COMPARISON OF CONFIGURATIONS

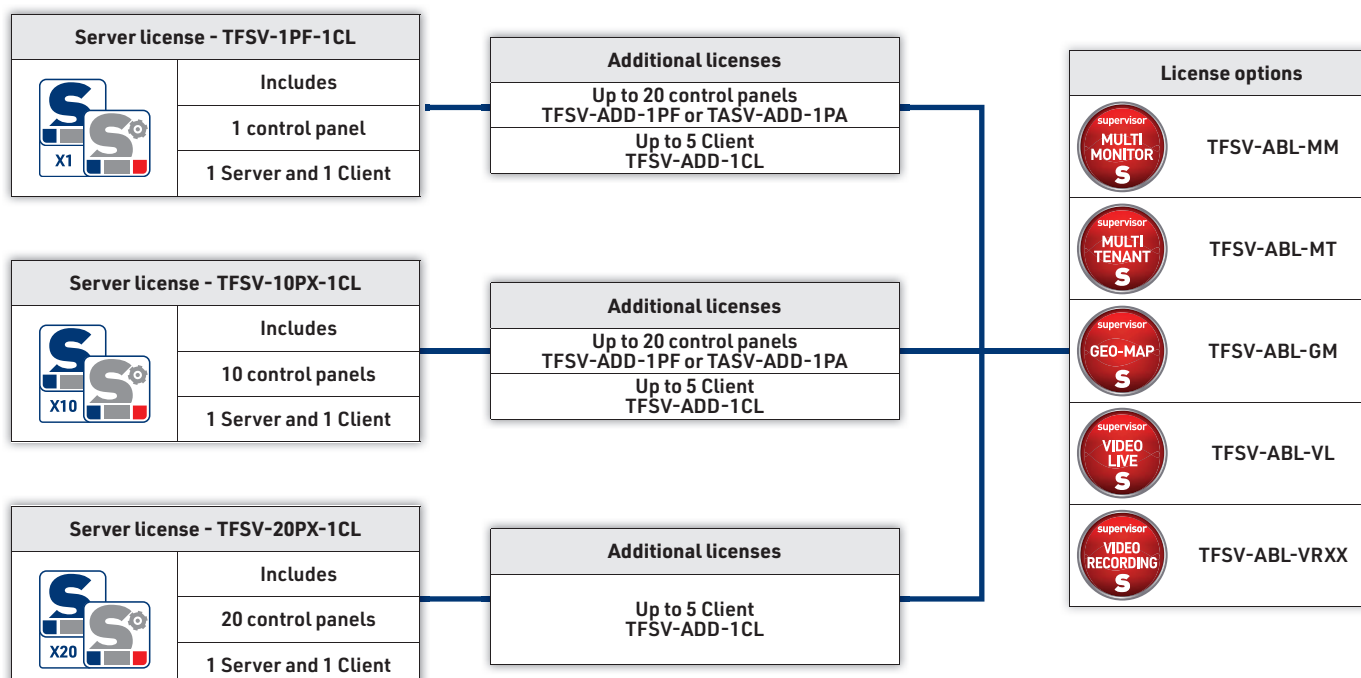
	supervisor	supervisor
CONTROL PANELS MANAGED	1 to 20	Not defined
CLIENTS MANAGED	1 to 5	1 to 40
RESTRICTION GROUPS	Max. 5	Max. 40
MONITORS PER CLIENT	1 to 4	1 to 4
DATA POINTS MANAGED	Depending on control panel	Depending on control panel
GRAPHIC MAPS MANAGED	Unlimited number	Unlimited number
LIVE STREAMS MANAGED	Unlimited number	Unlimited number
USERS MANAGED	Unlimited number	Unlimited number

Supervisor - Server licences







TFSV-1PF-1CL						
	<p>Server license for the supervision of 1 control panel. 1 Management Client that can be installed on a remote PC, connected to the Server via LAN/WAN. The number of Control panels managed by the Server license can be expanded up to a maximum of 20 by purchasing additional TFSV-ADD-1PF licenses. The number of Remote Clients can be extended up to a maximum of 5 by purchasing additional TFSV-ADD-1CL licenses.</p> <p>Item no. TF11SV1PF1CL</p>					
TFSV-10PX-1CL						
	<p>Server license for the supervision of 10 Tecnofire or Tecnoalarm control panels. 1 Management Client that can be installed on a remote PC, connected to the Server via LAN/WAN. The number of Control panels managed by the Server license can be expanded up to a maximum of 20 by purchasing additional TFSV-ADD-1PA licenses. The number of Remote Clients can be extended up to a maximum of 5 by purchasing additional TFSV-ADD-1CL licenses.</p> <p>Item no. TF11SV10PX1CL</p>					
TFSV-20PX-1CL						
	<p>Server license for the supervision of 20 Tecnofire or Tecnoalarm control panels. 1 Management Client that can be installed on a remote PC, connected to the Server via LAN/WAN. The number of Remote Clients can be extended up to a maximum of 5 by purchasing additional TFSV-ADD-1CL licenses.</p> <p>Item no. TF11SV20PX1CL</p>					

SUPERVISOR SOFTWARE LICENSES AND OPTIONS SUMMARY

Configuration of the Supervisor software requires, a Server licence, chosen according to the number of control panels to be supervised. The additional licences allow the management of other control panels to be added and the number of Client workstations to be expanded. The licences options allow the Supervisor software to be equipped with various functions and services.















Supervisor plus - Server licence

TFSVP-1010		SERVER 	UP TO XX CONTROL PANELS 	UP TO 25.000 DATA POINT 	UP TO 40 BUSINESS UNITS 	UP TO 40 USER CLIENTS 
	<p>Supervisor plus supervision software licence. Management through additional licences of an indefinite number of Tecnofire and Tecnoalarm control panels, up to a maximum number of 25000 datapoints. Management via additional licences of 40 simultaneous User Clients.</p> <p>Management and control of 40 independent business units. Unlimited number of: freely profilable operators, graphic maps, connection to Html pages and Video sources.</p> <p>Supervisor plus software can simultaneously manage: Fire Detection and Extinguishing Systems, Burglar Alarm Systems, EVAC Emergency Systems, Konnex Building Automation Systems, display an indefinite number of IP cameras.</p> <p>Assisted System Mapping with automatic download of datapoints and descriptions from the managed control panels. Management of up to 4 interactive monitors, 16 dynamic screens per monitor, which can be organised in preset layouts and called up manually or on event.</p> <p>Dynamic event manager, for each control panel/event it is possible to define: actions to be performed, layout to be displayed on the monitors, information tables, emergency plan, useful contacts, camera association for video verification, display of documents and images and notification emails.</p> <p>Management of an indefinite number of IP cameras with standard RTSP stream, in Live mode, up to 16 simultaneous displays.</p> <p>The Supervisor plus software requires the Windows 10 Professional operating system.</p>					
	Item no. TF11SVP1010					


SUPERVISOR PLUS SOFTWARE LICENSES AND OPTIONS SUMMARY

The configuration of the Supervisor plus software requires, a Server licence and the additional licences needed to manage the number of control panels to be supervised and the Client stations required.

The licence options allow the Supervisor plus software to be equipped with various features and services.

Server license - TFSVP-1010		Additional licenses		License options	
	It manages an indefinite number of control panels. Max. 25000 datapoints.	Pack of 20 control panels TFSVP-20PX			TFSVP-1030
	Up to 40 Client	Pack of 50 control panels TFSVP-50PX			TFSVP-1040
	Up to 40 independent business units	1 Client TFSVP-1020			TFSVP-1031
		Pack of 5 Clients TFSVP-1021			TFSVP-EN
					TFSVP-1033
					TFSVP-1680
					TFSVP-1110
					TFSVP-1121
					TFSVP-1122
					TFSVP-1050
					TFSVP-1100

Software

TFSW-PROGRAMMING	
	<p>Programming and management software for Windows 32/64 Bit environment. The software allows you to program all the functions of Tecnofire Systems. TFSW-PROGRAMMAZIONE software also makes it possible to locally view and manage all RSC® functions. The Software integrates the floor plan management module. Connection via TCP/IP port via Ethernet LAN or WAN network or direct connection between PC and central via USB port.</p>
	<p>Item no. TF15TFSWPRG</p>
	<p>Extension of the Tecnoalarm Systems programming licence to Tecnofire Systems.</p>
<p>Item no. TF15TFSWTF</p>	

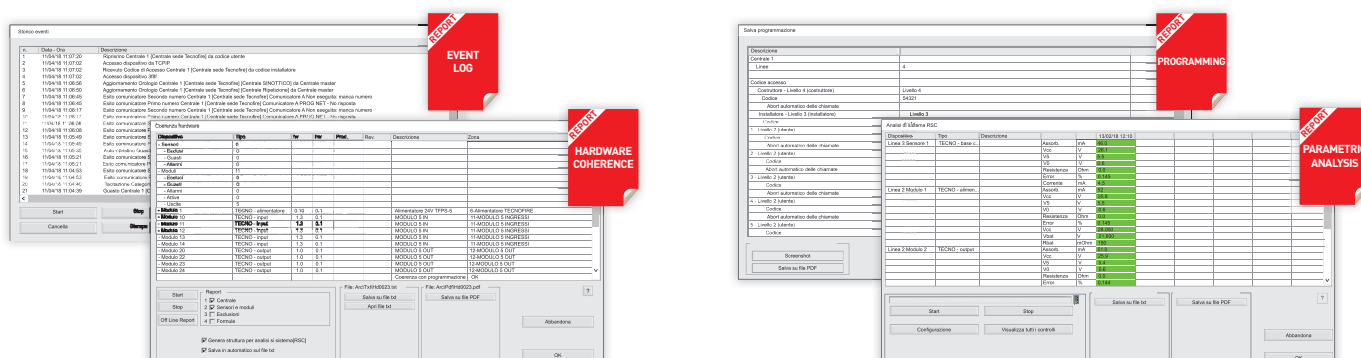
Added value

Tecnofire Software is an investment that enhances the professional value of the installation company and reduces its operating costs. Remote management makes it possible to assess and define in advance, remotely, the scale and/or the need for call-outs, routine or extraordinary, thereby minimising travel and benefiting from cost savings.



Documentation

TFSW-PROGRAMMAZIONE and TFSW-TCP/IP software allows you to produce documentation that certifies system operation and programming.



GENERAL TERMS OF SALE AND DELIVERY

1. PREMISES

This document contains the general terms of sale and delivery that govern the business relations between Tecnoalarm S.r.l. (Seller) and its customers (Buyers), for any type of product and service. Unless otherwise specified, these terms are applied to all Buyers, in this case professional customers. The terms are an integral part of the "Tecnoalarm General Catalogue", and are considered implicitly known to and accepted by the Buyer when placing the purchase order. The terms, if no other agreement (void if not in written form) exists, are to be considered as binding for the sale of any product of Tecnoalarm. The Seller reserves the right to change them without notice and without prejudice to the validity of previous terms in force at the time of the order. Any different terms and conditions used by the Buyer shall not apply to the relations between the parties if not accepted in writing and, in any case, shall be coordinated with these terms, unless expressly exempted by written act. The acceptance of these terms and the accompanying warranty conditions, as well as all the subsequent relations, agreements, and generally, the behaviors of the parties eventually governed by the same, do not entail the transfer to the Buyer of any exclusive right, nor the establishment of relations of granting, commission and mandate, with or without representation. Equally, they do not give the Buyer the right to market the Tecnoalarm products via e-commerce, or any other form of mail order sales nor to use in any form the mark, the name or other distinctive marks of Tecnoalarm.

2. PURCHASE ORDERS

No purchase order sent by the Buyer shall be binding for the Seller if not expressly accepted in writing. The order accepted by the Seller constitutes a firm and irrevocable proposal of contract. Sending an order and collecting the goods by the Buyer shall entail the contextual and integral recognition, knowledge and acceptance of the terms and the attached warranty conditions. The Seller is not bound, except with the express confirmation or subsequent ratification, by the declarations of its agents, business procurers, distributors and other commercial auxiliaries. The acceptance without expressed reservation by the Buyer of products non-compliant in terms of type or quantity, or sent with conditions other than those contained in the request of the Buyer or the offer of the Seller, implies the acceptance by the Buyer of the supply and the terms applied by the Seller. These reservations, even if made in the form of clarifications or corrections to the terms of delivery, shall not be effective if they will not be formulated by the Buyer in writing, immediately after the receipt of the goods.

3. PLACING OF ORDERS

Except as provided in the previous article, the Seller only accepts orders placed according to the procedure provided for in this article. All orders must be submitted in writing and complete in every part needed for the correct identification of the requested products. The Buyer may request the cancellation or modification of the order only before the execution of the same, through written communication. The Seller has the right to not accept changes or cancellations if the order is already being processed. The changes and the cancellation of the purchase orders, to be effective, must be expressly accepted by the Seller in writing.

4. DELIVERY OF THE PRODUCTS

No purchase order sent by the Buyer will be fulfilled by the Seller if not expressly accepted. Unless otherwise agreed in writing between the parties, the Seller shall deliver the products "ex works" (EXW) Turin, one of his subsidiaries or decentralized warehouses, within the terms of delivery agreed on the acceptance of the order. If required, the Seller will take care of the transport of the products and - in the absence of specific instructions of the Buyer - will choose the carrier that it deems appropriate. Unless otherwise specifically agreed in writing, the transport will take place with the clause "free carrier" (FCA) at the expense and risk of the Buyer. The cost of the transport and packaging, unless otherwise agreed, will be added to the price of the products purchased. The delivery deadline shall be deemed to be respected if the goods are promptly delivered to the carrier. In any case, the Seller shall not be liable for transport delays that cannot be imputed to him. In the case of delayed delivery, the Buyer may cancel the part of the order not delivered only after notifying the Seller, by registered letter with acknowledgement of receipt or with certified e-mail, his intention to do so, and after granting 15 weekdays, from receipt of such communication, within which the Seller can deliver all the products specified in the reminder and not yet delivered. It is excluded any liability of the Seller for damages derived from delayed or total or partial non-delivery of the purchase order. In case the Buyer fails to collect the goods within the agreed time, he will have to refund the Seller the storage costs until delivery or sale of the goods to third parties, which may take place after 30 days from the originally agreed delivery date. Failure or delay of fulfilment of a partial delivery does not implicate the non-fulfilment of the delivery obligation in itself and will have no effect on the other partial deliveries.

5. PRICES AND TERMS OF PAYMENT

The prices specified by the Seller in quotations, order confirmations and invoices are based on the price list expressed in Euro, excluding VAT, in force on the day of the order confirmation. Unless otherwise specified, all prices are net of transportation, and any other tax, fee and locally due rate. The applicable taxes are those in force on the date of billing. Any discount on the prices charged by the Seller shall only be applicable if agreed to in writing and only in case of full compliance with the payment terms fixed. In no case will the discounts offered be extendable to supplies, also of similar goods or identical products, performed prior to or subsequent to the order to which the discounts apply. If the costs of raw materials and/or the workforce used by the Seller should suffer changes such as to modify by more than 10% the original balance, the price will be adjusted in proportion, with the option of the parties to terminate the agreement within 10 days from the notice of the variation in the price. The invoices of the Seller are accepted if they are not challenged in writing by the Buyer within 14 days of their receipt. Unless otherwise specifically agreed in writing, the method and term of payment are those previously agreed with the Seller and stated in the customer file. Any payments made to the agents of the Seller must be previously authorized in writing by the latter. According to this, any payment made to subjects not previously authorized for collection shall not discharge the obligation. Any credit instruments accepted by the Seller is subject to collection. Any delay or irregularity in the payment shall give the Seller the right to suspend deliveries and/or terminate the contracts and/or cancel orders in progress, even if not related to the payments in question, as well as the right to compensation for any damages. From the date of expiry of the payment, the default interests at the legal rate provided for in the Decree 231/2002, amended by the Decree 192/2012, shall be entirely due. In no event the Buyer will be authorized to reduce or offset the price with any credit, however occurring, against the Seller, unless prior written permission of this is granted. For the imputation of payment, reference will be made in any case to the provisions of art. 1193 par. 2 C.C. [Italian Civil Code]. The Buyer is obliged to complete payment, even in the event of a dispute or controversy, according to the condition "solve et repete".

6. RETENTION OF TITLE

In the case where the payment is carried out, in whole or in part, after delivery, the delivered products shall remain the property of the Seller up to the full payment of the agreed price, within the meaning of art. 1523 C.C. [Italian Civil Code]. The Seller shall have the right to repossess any product with retention of title and the Buyer shall bear the costs. The Seller may withhold as penalty any sum received as payment, without prejudice to the right to compensation for the greater damage. If the Buyer relinquishes the products to a third party, the rights of the Seller shall be transferred to the resale price up to the full payment.

7. TECHNICAL DESCRIPTIONS AND SPECIFICATIONS OF THE PRODUCTS

The technical data, dimensions, features, specifications, colors, weights, prices and any other data relating to the products contained in the technical and advertising documentation of the Seller, as well as the characteristics of the samples and models which may be provided to the Buyer, are merely indicative and are not binding, unless they were expressly mentioned in the offer and/or in the written acceptance by the Seller. Any statements or advertising of third parties in no way bind the Seller. Any technical design or document provided to the Buyer that enables to manufacture the products sold, or parts of them, remains the exclusive property of the Seller and shall not be copied, reproduced, transmitted to third parties or however used without the prior written consent. In addition, the Seller remains exclusive holder of all intellectual or industrial property rights relating to the products. The Seller reserves the right, at its sole discretion and without the need for any notice, to make the changes deemed most appropriate that do not adversely affect the functionality, the quality, and the aesthetics of the product itself, with the only obligation to inform the Buyer about the changes.

8. E-COMMERCE

The Seller prohibits the commercialization of its products via e-commerce, whether a single component or the entire system is concerned. The Seller will make use of all the means provided by the law to prevent this from happening and to obtain the sanctions on those who act in violation and/or circumvention of the ban.

9. WARRANTY OF THE SELLER

Unless otherwise agreed in writing between the parties, the Seller ensures that its products (with the exception of those parts which are not directly produced) are free from flaws/defects for a period of two (2) years from the date of delivery of the goods to the Buyer. The warranty does not operate with reference to those products whose defects are due to:

- a. damage in transit
- b. improper use or negligent handling
- c. failure to comply with the Seller's instructions relating to the assembly and/or operation of the products
- d. lack of ordinary maintenance and preservation of the products
- e. normal wear and tear of moving parts
- f. repairs and/or changes made by the Buyer or by third parties without the prior written permission of the Seller.

The Seller will, in its sole discretion, replace or repair the defective or faulty products or parts, provided that the Buyer's claim is covered by the warranty and notified within the deadlines referred to in this article. The Buyer shall notify the Seller, under penalty of loss of the right to appeal, of the presence of patent defects within eight days from delivery of the products, or hidden defects or those not detectable by reasonable inspection within eight days from discovery. After the above deadlines have expired, the products are considered as permanently accepted. Claims must be made in writing and must indicate in detail the alleged defects or nonconformities, as well as the references to the relevant invoice, DDT or order confirmation of the Seller. In addition, upon request of the Seller, adequate photographic documentation must be attached to the claims. Incomplete claims will not be covered by the warranty. The products subject to complaint should be immediately sent to the head office of the Seller, or to any other place that the latter will indicate from case to case, at the costs and expenses of the Buyer, unless otherwise agreed between the parties, in order to allow the Seller to complete the necessary checks. The warranty does not cover any damage or defects of the products resulting from, or directly related to, parts assembled/added by the Buyer. If a claim is totally or partially unfounded, the Buyer shall indemnify the Seller for all the costs incurred for the checks. In every case, the Buyer shall not assert any warranty rights towards the Seller if the products have not been paid according to the terms and conditions agreed. The Seller shall not be responsible for any damage arising and/or connected to defects of the products, except in the case of his proven deliberateness or gross negligence. In any case, the Seller shall not be liable for incidental or consequential damages of any nature, such as losses or lost profits arising from inactivity of the Buyer.

10. LEGAL WARRANTY

The Seller guarantees the quality of the products to its direct customers. This warranty, the duration of which is determined by the law, includes possible initial defects of the products or, in any case, defects existing at the time of delivery. In application of the terms of the warranty, the Seller ensures the repair, revision, update or restoration of the products. The warranty excludes any responsibility by the Seller for direct or indirect damages caused by the non-functioning of the products in consequence of installation and/or programming, as these activities and their consequences are the exclusive responsibility of the installer.

11. RESPONSIBILITY OF THE MANUFACTURER

The products with Tecnoalarm brand are manufactured in accordance with the regulations in force in Italy and in the European Union. The Seller is responsible for damages to persons or property arising from the products sold, only in the event of his proven gross negligence in the manufacture of the products themselves. In no event, it shall be considered liable for incidental or consequential damages, loss of production or lost profits. Except as provided above, the Buyer shall not consider the Seller liable in all the actions of third parties based on liability arising from products sold to them and shall indemnify for the damage caused by the claims in question.

12. MANUALS

The Seller prohibits the publication of the installation and programming manuals of the products on the web, as the content of these manuals is to be considered as strictly confidential, also with the aim to protect the final customers in relation to the requirements for the protection of property and life.

13. FORCE MAJEURE

In all cases of force majeure occurring (including but not limited to: lack of supply of raw materials, significant predictable increases of the prices of the same, fire, flood, disturbances in the transport sector, strikes, lock-outs or other similar events, which prevent or reduce the productive capacity of the Seller or block the transport between the plant of the Seller and the place of destination of the products), the Seller shall be entitled to an extension of up to 90 days, extendible to up to 180 days in the most serious cases, of the deadline for the delivery of the products, provided that it promptly notices in writing the Buyer about the occurrence of force majeure. Should the condition of force majeure subsist on expiry of the above time limits, the Buyer may terminate this agreement by giving written notice to the Seller by means of registered letter with acknowledgement of receipt or certified e-mail.

14. CHANGES AND INTERPRETATION OF THE TERMS

For the interpretation of these terms, only the original Italian text shall be considered legally binding. Unless otherwise specified, every reference to price lists, general terms of sale and delivery or other documents from the Seller or third parties is meant as referring to the above mentioned documents in force at the time of the reference itself. Any modification or integration made by the parties to the agreements to which these terms apply, must be made in writing, otherwise they will be void. The derogation to one or more provisions of these terms should not be interpreted extensively or by analogy and does not imply the desire to waive the terms in their entirety.

15. APPLICABLE LAW

For whatever not expressly provided in these terms, the rules laid down by the Italian law, or, alternatively, the uses and practices, shall apply. Since international sales are not explicitly regulated by these terms, these will be governed by the Vienna Convention on the International Sale of Goods of 1980. For the interpretation of the terms of return and other commercial terms possibly used by the parties, refer to the INCOTERMS of the International Chamber of Commerce in Paris. Any foreign uses and practices are not binding in any way for the Seller.

16. DISPUTES AND COMPETENT COURT

For any disputes regarding or in any way connected to the agreements to which these terms apply, the only competent Court is that of Turin, Italy.

17. CONFIDENTIALITY

Any production technology and/or information of the parties (including expedients, design and information) whether or not patented, shall be treated as essentially confidential and shall not be used or disclosed in the absence of prior written permission.

18. FINAL PROVISIONS

Any communication between the parties shall be sent to the respective addresses resulting from the business correspondence exchanged. If the Seller fails to: a. apply one of the present terms - b. require to the Buyer to perform any provision of these terms, this may not be construed as present or future waiver of that provision, nor in any way affect the right of the Seller to have each of the provisions executed in the future. The express waiver by the Seller of any of the provisions of these terms does not constitute a waiver to their future respect by the Buyer. The agreement may not be transferred in whole or in part without the prior consent of the other party.

The Seller declines any responsibility concerning the technical-commercial activities of design, installation and maintenance of the systems, given that, as the manufacturer, it has the obligation to adapt to the Ministerial Decree no. 37/2008 which provides that the installer, as a legally independent entity, assumes the role of an autonomous and responsible interface towards the final customer.

Tecnoalarm S.r.l.

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Via Ciriè, 38 - 10099 - San Mauro T. se - Torino (Italy)

Manufacturing plant:

Strada del Cascinotto, 139/54 - 10156 Torino (Italy) - Tel. +39 011 22 35 410



495, Rue Antoine Pinay - 69740 Genas - Lyon (France)

Tél. +33 (0)4 78 40 65 25

tecnoalarm.france@tecnoalarm.com



C/Vapor 18 (Pol. Ind. El Regàs) - 08850 Gavà - Barcelona (España)

Tel. +34 936 622 417

tecnoalarm@tecnoalarm.es



www.tecnofiredetection.com

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