





TFT-7S



















Synoptic repeater panel for control and management. The Panel has the same features and functions as the TFT-7 Panel, with the possibility to implement the interactive synoptic management of customized graphic maps. The panel can manage and display according to different operating modes, up to 32 graphical maps. On each map you can freely place up to 32 graphic icons. You can associate a System device or a navigation button to each icon. In the event of an alarm, the System automatically displays the map that identifies the location of the device in alarm. The Panel TFT-7S enables to decentralize and extend up to 16 points the management and synoptic control through graphic maps of the devices that make up the System. Integrated flash memory for customization of the graphical interface and dictionaries, manageable from a personal computer as an external drive, via USB interface. RS485 bus connection. Surface-mount, recessed, or on table stand.

Refined design, ultra-thin line. ABS V0 enclosure. Degree of protection IP40. Dimensions ($L \times H \times P$) 225 x 157 x 35mm. Red cover (interchangeable).

Item no. TF2TFT7S-UK

OBLIGATIONS AND NOTICES

The synoptic repeater panel TFT-7S can be used only if connected to an expansion serial bus of the Tecnofire control units models: TFA1-298, TFA2-596, TFA4-1192. During design and installation, it is necessary to observe and apply the applicable regulations.

OVERVIEW

The repeater panels allow to expand and decentralize the management and system information stations. The panels belong to the category "Expansion Devices"; the stations can manage up to 16 expansion devices. The repeater panels can be connected to the control unit via either Master or Slave Bus, in either open loop or closed loop mode.

The system buses are supervised: in closed loop mode, the control unit is able to detect and report the connection failure, maintaining the normal operation of the network.

Repeater 1 Tecnofire Release: 1.3.00 ENG Control panel working Other...

ADDRESSING

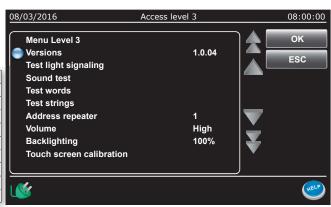
The ID of the Panel can be set in digital mode via the specific menu. The numeric range of the allowed addresses for the expansion devices is 01 to 16. The address set must be enabled by the relevant menu available on control unit.



LOCAL SETTING MENU

The operation of the repeater panel TFT-7S can be set via the local setting menu, which enables to set and/ or change some operating parameters. Only users provided with Level 3 password can access the menu.

Menu	Function	
Versions	Information on the equipment of the device	
Luminous signal test	Luminous effectiveness of the signals	
Sound test Efficiency of the speakers in siren mod		
Words test	Efficiency of the speakers in voice mode	
Writing test	Display/listening of dictionary resources	
Repeater address	Device address settings	
Volume	Speaker volume adjustment	
Backlighting	Display backlighting adjustment	
Touch screen calibration	Touch screen display calibration	



REPEATER PANEL FUNCTIONS

Via the repeater panel, you can perform the system management functions shown in the table.

NOTIFICATION MODES

Alarm notification is divided into several phases. When the control unit receives an alarm, the repeater panel enables the speaker in siren mode and displays the (flashing) message indicating the type of event. The operator acknowledges the event by pressing the "Mute" button.

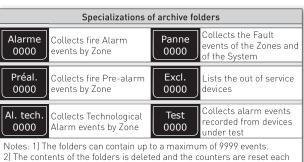
The muting causes the disabling of the speaker and the display of the detailed list of the events contained within the folder of the acknowledged event.

By selecting an event and pressing the "Mute" button, the voice synthesis that enunciates the selected event is activated. In the case of an alarm and if the zone has an associated alarm plan, by pressing again the "Mute" button, a window appears that contains the text of the alarm plan that is associated with the Zone.

In the lower area, the display shows the 6 folders in which the events are stored according to their category. The folders remain visible up the next reset of the control unit. The reset erases all the events contained in the folders and resets the counters.

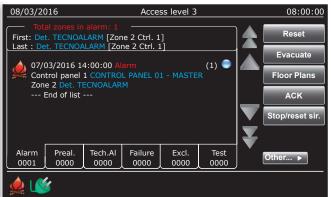
Funzioni del pannello ripetitore Abilita disabilita funzione "Impianto presidiato" Attiva le modalititò di segnalazione "Evacuazione" Effettua la Tacitazione delle segnalazioni di allarme Effettua la Tacitazione ed il ripristino delle sirene Effettua il Ripristino dei dispositivi





time you run a reset of the control unit.

3) We remind that the events remain stored in the "Event History" of the control unit.



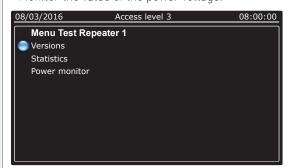


DIAGNOSTIC FUNCTIONS

The control unit manages a set of specific diagnostic functions for the expansion devices.

The diagnostic functions that are available for the repeater panel allow to:

- Identify the equipment and versions of the resources.
- Read the statistics from the communication monitor
- Monitor the value of the power voltage.



	.
	Repeater test
/ersions Resource equipment and version	
Statistics	Communication monitor statistics
Power supply monitor	Power supply voltage monitor
	Power supply monitor
Supply volta	ge Detects the voltage value
	Statistics
Frames sen	t Communication frames counte
Errors	Faulty frames counter
Success Rat	e Percent value
Error rate	Percent value
-	Versions
Firmware	Device firmware version
Writings	Set of writings used
Font	Font type
Alternative	font Alternative font type
Dictionary	Dictionary version
Alternative	dictionary Alternative dictionary version
Serial numb	Serial number of the device
Licences	Enabling string

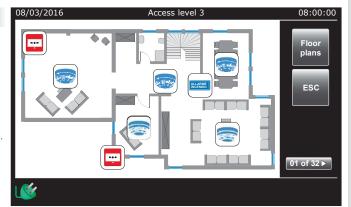
SCENARIOS PROGRAMMING

The synoptic repeater panel manages up to 32 scenarios, on each scenario you can have up to 32 icons. Scenario programming consists in placing on a map, representing the topography of the site under surveillance, icons that identify the system devices and their location.

The characterization of the icons allows the operator to correctly identify the device simply by touching the icon. The icons can be associated with functional buttons for selection and display of specific scenarios.

The operation of the panel can be limited to just the display of the scenarios or be extended to complete interactive operation. The display mode can be chosen between automatic rotation or fixed. The display times of each scenario and of stop are programmable. The detection of an alarm by a device attached to a scenario of the synoptic panel causes the display of the related scenario. The icon that identifies the device that has detected the alarm is visually highlighted along

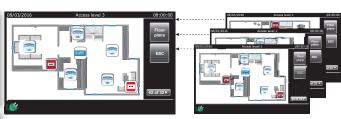
with its identifying information.



Scenario programming		
Programming Funzione		
Scenario selection	ction Select the scenario to be programmed	
Scenario naming	Assign a name with max. 24 characters	
Scenario enabling	Enables the display of the scenario	
Map association Associates the map to the scenario		
Icon placement Select and place the icons on the map		
1		

Icons characterization			
Programming Function			
Туре	Selection of the device represented by the icon		
Control Unit	Selection of the control unit from which the device depends		
Line	Selection of the line on which the device is connected		
Device	Zone or Repeater device selection		
Scenario opening	Selection of the scenario invoked by the button icon		

Scenario display mode		
Programming Function		
Operation	Normal only display or interactive	
Scenario	Auto rotating or fixed display	
Automatic	Display time of the scenario	
Manual	Stop time of automatic rotation	
Sensible area	Sizes of the icon sensitivity area	



Automatic rotation - displays the maps in sequence according to a rotation, marked by the time "Automatic Display". In case of alert, the rotation stops to display the scenario concerned by the event.

Fixed - With this mode in resting conditions, the scenario chosen by the user is displayed.

In case of alert, the scenario concerned from the event is displayed.



ICO_MAP FOLDER

The synoptic panel repeater is fitted with a 128Mbyte non-volatile Flash memory. To access and view the contents of the memory you need to connect a personal computer to the USB port of the repeater.

The computer sees the repeater's memory as an external drive. The repeater memory contains all the resources necessary for operation.



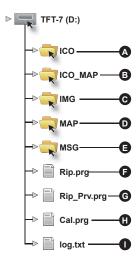
DATA STORAGE STRUCTURE

The drawing on the side illustrates the logical structure with which data is stored within the memory of the synoptic panel repeater.

The following table summarizes the contents of the folders and the function of the files contained in the memory of the synoptic repeater panel.

Warning: before disconnecting the USB cable from the Repeater, disconnect the drive using the procedure for hardware safe removal.

On startup, the repeater loads the data stored in the memory required for its operation.



Folder - File	Function description	Specific notes and warnings		
ICO	The folder contains the icons and images used by the repeater to indicate the functional states of the system.	Caution - To avoid issues on the interp discrepancies in the display modes be System, it is forbidden to change the n		
B ICO_MAP	The folder contains the icons used for the creation of the graphical maps, viewable from the device "Synoptic Repeater"	The icons in the folder ICO_MAP depict g elements accompanying the graphical m the folder, the files must meet the requir the folder ICO_MAP"	aps. You can add customized icon files to	
IMG	The folder contains the background images, the drawings of the keys and of all the functional elements used by the system to graphically display all the functional states on the repeater. Caution - To avoid malfunctions and discrepancies of the display arious devices of the System, it is forbidden to change the content folder and/or the file names of the IMG folder.			
МАР	The folder contains the image files that the device "Synoptic repeater" uses to display the graphical maps. The files in the MAP folder depict the background images used for the construction of the graphical maps. You can add image files to the folder MAP"			
. MSG	The folder contains the files for text management and for speech synthesis The repeater can handle two languages. The repeater works in mono or dual language mode, based on the files in the folder	File of the first language str.bin (text strings) font.bin (font used) msg.bin (dictionary)	File of the second language str_alt.bin (text strings) font_alt.bin (fonts used) msg_alt.bin (dictionary)	
RIP.PRG	System file (for Repeater functions) Backup file of programming data managed by the control unit.	Warning - Customization file managed The file should not be renamed or edit		
RIP_PRV.PRG	System file (for Repeater functions) Backup file of local programming data of the repeater Warning - Customization file managed by the repeater. The file should not be renamed or edited manually			
l CAL.PRG	System file (for Repeater functions) File with calibration data of the touch screen. If the file is missing, on startup the repeater prompts to perform the calibration procedure. Warning - Customization file managed by the repeater. The file should not be renamed or edited manually			
log.txt	Initialization log file, the Repeater at each startup generate corrupt files. The log file is overwritten on each startup, so only to the last startup.			

Caution: To activate any changes made on the folders or files in the memory of the repeater you must restart the device.

Image file properties check

E - Verify file name and type

B - Click on properties

C - Click on details



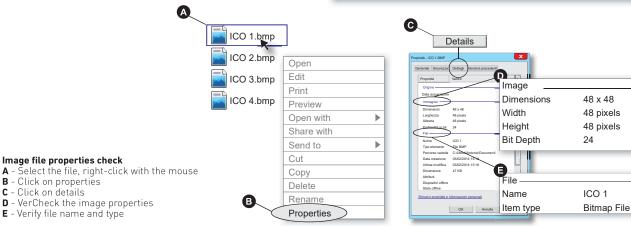
Synoptic repeater panel

ICO_MAP FOLDER

The ICO_MAP folder contains the image files of the icons that the synoptic repeater panel overlays to the maps when displaying scenarios.

The icons are customizable, for the realization of the graphic files that represent them, follow the rules in the table "Image file requirements - ICO_MAP Folder."

- II	Image file requirements- ICO_MAP Folder		
Format	Images must be in Bitmap format, with .BMP file extension		
Size	The image size must be 48 x 48 pixels (width x height)		
Depth	The depth of the images should be 24 bit		
Transparency	To achieve transparency, use a magenta background		
File name	The name can consist of a maximum of 8 characters + 3 for the extension (.BMP)		
Type of characters	Alphanumeric, uppercase or lowercase (avoid any other type of character)		

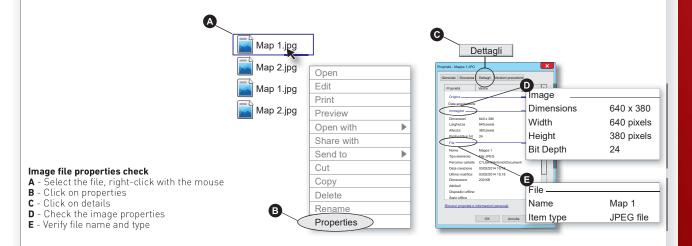


MAP FOLDER

The MAP folder contains the image files of the map that the synoptic repeater panel uses when displaying scenarios.

The maps are customizable. For the realization of the graphic files that represent them, follow the rules in the table "Image file requirements - MAP Folder."

Image file requirements- MAP Folder		
Format Non progressive JPEG images (.JPG or .BMP extension)		
Size	The image size must be 640 x 380 pixels (width x height)	
Depth	The depth of the images should be 24 bit	
File name	Name of up to 8 characters + 3 characters for extension (JPG or BMP)	
Type of characters		





CONNECTION TO THE SERIAL LINE

The connection of the expansion devices is carried out on either the Master Bus or the Slave Bus of the control unit. The connection can be realized in open loop or closed loop. The connection line is balanced, the balance must be made by dip switches or jumpers only on the last device connected.

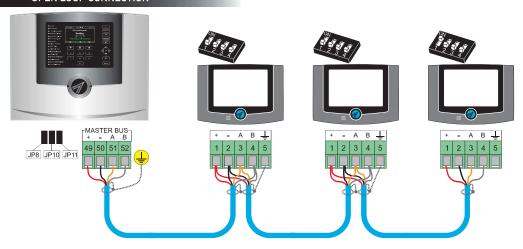
For the connection of the devices on the Bus lines RS485 (Master Bus and Slave Bus) it is essential to use: twisted multipole signal and power supply shielded cable with flexible wires.

The maximum length allowed for Bus lines of the system is 1000 mt. You can achieve greater distances using a fibre optic connection instead of an electric cable.

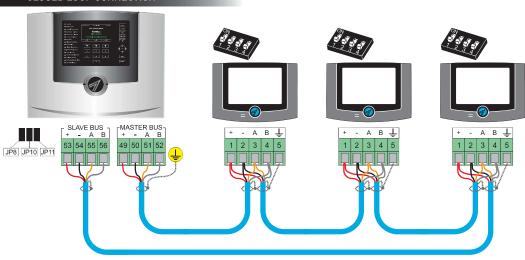
For reasons of electrical safety and to improve the immunity to electrical interference, the shielding of the cables must be connected in order not to stop their path and must be connected to the ground terminal only inside the fire detection control unit.

Bus extension / cable specifications				
Max. extension 1000 m	Min. section	Electrical resistance		
Power supply wires	2 x 1.5mm²	<13.3 Ohm x Km		
Signal wires	2 x 1mm²	<19.5 Ohm x Km		

OPEN LOOP CONNECTION

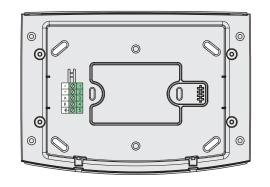


CLOSED LOOP CONNECTION





EQUIPMENT



	(4)	
	•	

	1	+24V DC	Serial line power supply positive
2 -		-	Serial line power supply negative
3 🕖	3	А	Serial line channel A
4 Ø	4	В	Serial line channel B
[3][0]	5	(Shield anchor

	1	ON	Terminated bus line
		OFF	Non-terminated bus line
On	2	ON	Reserved use, leave in OFF position
		OFF	
	3	ON	BOOT function enabling
		OFF	Normal operation
	,	ON	CLR function enabling
	4	OFF	Normal operation











DEDICATED ACCESSORIES



TFT7-LCGT	Titanium grey replacement cover	Item no. TF2TFT7LCGT
TFT7-LCG	Metal grey replacement cover	Item no. TF2TF7LCG
TFT7-LCN	Black replacement cover	Item no. TF2TFT7LCN
TFT7-LCB	White replacement cover	Item no. TF2TFT7LCB



Table support for repeater panel TFT-7. The support offers an effective ergonomic solution in all situations where the repeater panel must be placed on a work bench. Continuous tilting adjustment Refined design. ABS V0 enclosure. Degree of protection IP40. Base plate dimensions (W x H) 200 x110mm. White.

TFBASE-TFT7LT

Item no. TF2TFBASETFT7LT



Recessed base for repeater panel TFT-7. The base can be wall mounted to create the predisposition to the mounting of the repeater panel TFT-7.

Warning: the repeater panel TFT-7 is always sold with recessed base included.

TFBASE-TFT7L

Item no. TF2TFBASETFT7L



Mini USB interface cable for programming of the repeater panels TFT-7

TFCM-USB

Item no. TF2TFCAV0MINIUS

TFT-7S - Technical and functional specifications

Overview	Device Name	TFT-7S
	Description	Synoptic repeater panel
	Communication protocol	FIRE-BUS
	Addressing	Digital
	Connection	Bus RS485
User interface	Display	Colour TFT7" resistive touch screen
	Resolution	800x480 pixel
	Functional information	Dynamic iconography
	Speech synthesis	Multilingual dictionary
	Speaker	Multi-Function
	Contextual help	With audio and graphics
	Graphical interface	Customisable
	Manageable scenarios	Up to 32
	Icons for scenario	Up to 32
Hardware specification	Data memory	Flash 1Gbit
	Management interface	Porta USB
Electrical specifications	Power supply	From Serial Bus
	Rated voltage	24V DC
	Operating voltage	18V30V DC
	Typical draw (idle)	90mA @ 24V DC
	Max draw (when transmitting)	240mA @ 24V DC
Physical specifications	Operating temperature	+5°C+40°C
	Relative humidity	10%93% (non-condensing)
	Protection Degree	IP40
	Enclosure	ABS V0
	Dimensions (L x H x D)	225 x 157 x 35mm
	Weight	350g
Conformity	Year of CE marking	14
	Approved for use in combination with control units TFA1-298, TFA2-596 and TFA4-1192	

N.B. The declarations of conformity and performance are available on the website: www.tecnofiredetection.com







