





TFCOM



















PSTN phone dialer, approved for use in combination with TFA fire detection systems. Integrated PSTN phone carrier. Optional phone carriers: GSM-GPRS. 8 communicators/channels for phone notification of events, 1 CALL BACK communicator/channel dedicated to the connection with the management centre.

33 categories of transmissible events. 5 types of transmissible zone events. 2 phone numbers or IP addresses for each communicator. 29 communication protocols functional to phone notification carriers.

Transmission formats: Voice, SMS, Ring, DTMF, Data. Security: encrypted communication, supported encryptions AES 128 Bit and AES 256 Bit, independent passphrase setting for each communicator.

Automatic diagnostic functions: communications carriers, power supply, battery, serial communication.

Front panel with 6 LED signalling operating states. Fault output. Full RSC® management of the device: setup, remote management and control of all functional parameters. Built-in flash memory for vocabulary customization, manageable from a personal computer as an external disk. USB interface.

RS485 bus connection. Addressable device. Metallic enclosure. Class of protection IP30.

Battery housing: 1 12V-7Ah. Dimensions (L x H x P) 315 x 255 x 82mm. Black.

EN 54-21: 2006. Homologation certificate 0051-CPR-0454.

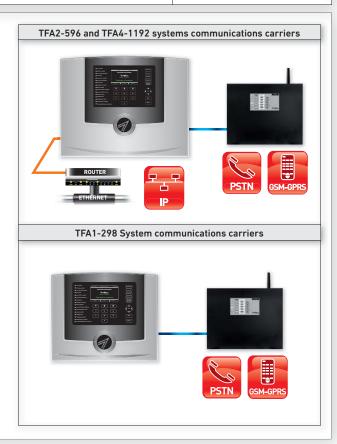
Item no. TF2TFCOM

OBLIGATIONS AND NOTICES

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

OVERVIEW

The TFCOM phone dialer allows to expand the transmission carriers and the phone notification communication methods of the following Systems:TFA1-298, TFA2-596 and TFA4-1192. The phone dialer belongs to the category "Expansion devices". The Systems TFA2-596 and TFA4-1192 can manage up to 16 expansion devices, the System TFA1-298 can manage up to 5 expansion devices. The telephone dialer can be connected according to the control unit used and to the System topology to the Master or Slave Bus, in open loop or closed loop mode. The System Buses are supervised, the control unit is able to detect and report a connection line break, with closed-loop configuration the control unit still maintains the normal operation of the network. The Tecnofire Systems can manage multiple TFCOM dialers.



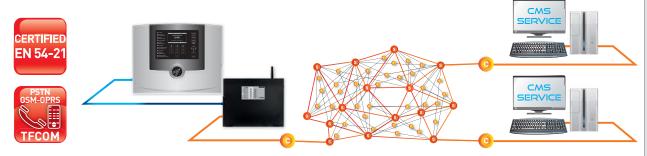


REGULATED BY UNI9795: 2013

Important Notice Here are the literal contents of the requirements of the applicable standard UNI 9795: 2013, paragraph 5.5.3.2.

When the control unit is not under constant monitoring by the personnel involved, there must be a system through which fire and fault alarms and out of service notifications shall be transferred to one or multiple alarm units for alarm receipt and intervention and/ or manned places, from which the employees can implement at any time and in a timely manner the necessary measures.

The connection with the above units must be constantly monitored, so the devices used must comply with EN 54-21.



CONNECTION TO THE SERIAL LINE

The connection line is balanced, the balance must be set by dip switches or jumpers only on the last device connected.

To connect the devices it is mandatory to use multipolar shielded cable with flexible wires. The signal connection wires A and B must be twisted.

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

For reasons of electrical safety and to improve the immunity to interferences, the shielding of the cables must be connected so as not to break 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	Minimum section	Electrical resistance				
Power supply wires	2 x 1.5 mm²	<13,3 Ohm x Km				
Signal wires	2 x 1 mm²	<19,5 Ohm x Km				

ADDRESSING AND IDENTIFICATION

The serial identification physical address of the TFCOM phone dialer is set via the SW2 Dip-switch located inside the cabinet, on the motherboard where the cables are connected.

The TFCOM dialer is an expansion device, the numeric range of the addresses allowed for the expansion devices is address 1 to 16. Please note that setting address 0 disables the dialer. The address set on the dialer must be enabled from the relevant "Repeaters Setup" menu of the control unit. Access to the menu is allowed only to users provided with Level 3 password.

2/10/2016	Access level 3	10:10:56
Menu Configurat	ion repeater	
Enabling		
Description		
Voice msg		
Туре		Channel

	Repeaters Setup				
Enabling	Enabled	or Disabled			
Descriptio	n Menu to	enter alphanumeric description			
Voice msg	Menu to	select the voice message			
Туре	Selectio	n of the type of Repeater			
	S	Selection of the type of Repeater			
	Dialer	TFCOM Dialer			
	Repeater	TFT-7 repeater panel			
	Dashboard	TFT-7S dashboard repeater panel			
		Repeater phrase menu			
	Word				
	Word	Selection of 4 words that make up the voice			
	Word	message that identifies the device			
	Word				
		Repeater title menu			
	Е	nables or disables the Repeater			
	Enabled	The Repeater is enabled			
		The Repeater is disabled			

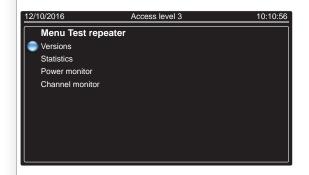


DIAGNOSTIC FUNCTIONS

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

The diagnostic functions that are available for the phone dialer allow to:

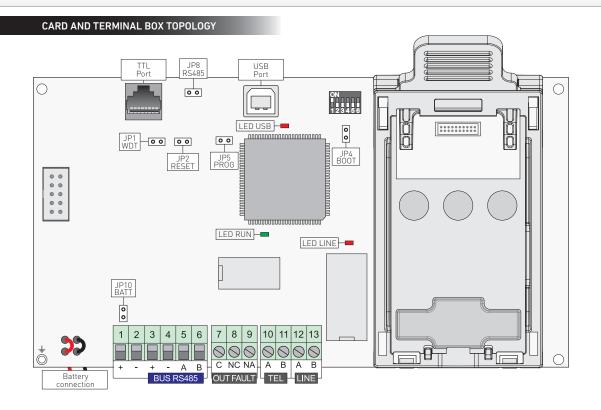
- Identify the equipment and versions of the resources.
- Read the statistics from the communication monitor
- Monitor the value of the power voltage.

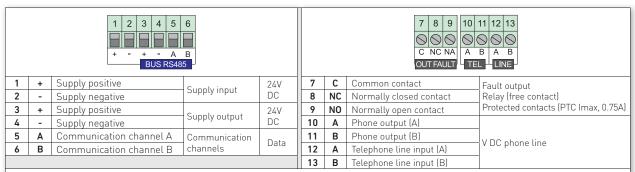


	Repeater test				
Versions	Resource equipment and version				
Statistics	Communication monitor statistics				
Power monitor	Power supply sources monitor				
Channel monitor	Functional monitor of the dialer				
	Dialer Monitor				
PSTN	Device status (Enabled-Disabled)				
GSM	Device status (Enabled-Disabled)				
GSM Status	Registration to the mobile phone network				
Operator	Displays the phone carrier ID				
Field	Displays the GSM signal level				
Firmware	Device firmware version				
	Power supply monitor				
Supply voltage	Detects the external power supp				
Battery voltage	Detects the battery supply				
	Statistics				
Frames sent	Communication frames counter				
Errors	Faulty frames counter				
Success Rate	Percent value				
Error rate	Percent value				
	Versions				
Firmware	Device firmware version				
Writings	Set of writings used				
Dictionary	Dictionary version				
Serial number	Serial number of the device				
Licences	Enabling string				









NOTICE - Limitations of use of the outputs

The FAULT output (terminals 7, 8, 9) is not supervised (type J according to EN 54-1 nomenclature) and therefore, in accordance with EN 54-2, should not be used to control devices for the transmission of fault notifications

NOTICE - Device power supply

The serial line power supply consists of two pairs of power supply terminals, in accordance with EN 54-21 (terminals 1-2 and 3-4).

Identification	Operating state		perating state Jumpers function			
JP1 - WDT	• •	Open	Watchdog reset disable	Supervised		
JP2 - RESET	• •	Open	Hardware reset	operation state.		
JP4 - B00T	• •	Open	Used to upgrade the product firmware via the USB port and during DEBUG	In normal operation, the jumpers		
JP5 - PROG	PROG Open Used to update the firmware of the product via the serial port					
JP8 - RS485	Open With the jumper open, the Bus is not terminated. Open the jumper when the communicator is not the last devi connected on the Bus. Condition valid for both wiring configurations of the line Bus: open or closed					
JP6 - K5465		Closed	th the jumper closed, the Bus is terminated. Close the jumper when the communicator is the last device connected the Bus. Of course only if the connection Bus is in open line configuration.			
JP10 - BATT	• •	PV DC.				
JF IU - BAII						

Identification	Colour	Function				
RUN LED	Green	LED monitoring the functional state of the communicator. Flashing: normal operation state				
LINE LED	LINE LED Red LED signalling the use of the PSTN phone line by the communicator					
USB LED	USB LED Red LED monitoring the activities of the USB port; flashes to indicate data exchange					



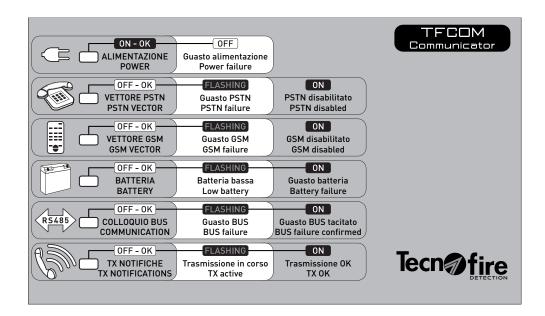
LOCAL REPORTS

The LED on the front panel display locally the operating states of the phone dialer.

The information displayed are also transmitted at system level to the control unit.

The phone dialer functionally tests its components in a continuous manner or at preset times.

Under conditions of normal operation, that is: no transmission of notifications and total absence of faults and deactivations, only the green LED "POWER SUPPLY" is on.



I	Notification	Colour	Type of notification	Notification modes			
<u></u>	ALIMENTAZIONE	Green	Reports the power supply	Off	Power supply off		
	POWER	Green	status of the device	On	Power supply on		
				Off	PSTN Dialer OK		
900	VETTORE PSTN PSTN VECTOR		Reports the status of the PSTN section	Flashing	PSTN Dialer KO		
	101111201011		3001011	On	PSTN dialer not enabled		
				Off	GSM Dialer OK		
	VETTORE GSM GSM VECTOR	Yellow	Reports the status of the GSM section	Flashing	GSM Dialer KO		
	OSM VECTOR			On	GSM dialer not enabled		
NO -18		Yellow	Reports the status of the	Off	Battery charged and operating		
	BATTERIA BATTERY		buffer battery: battery low or	Flashing	Low battery (drained)		
	DATTER		defective/missing	On	Battery fault or missing battery		
1			Indicates the state of the	Off	Communication with devices on BUS485 OK		
RS485	COLLOQUIO BUS COMMUNICATION	Yellow	connections between the devices connected on BUS485	Flashing Communication fault on BUS485 (not acknow	Communication fault on BUS485 (not acknowledged)		
			(control units and/or repeaters)	On	Communication fault on BUS485 (acknowledged)		
			Reports the transmission	Off	No phone notification transmitted		
113111	TX NOTIFICHE TX NOTIFICATIONS	Red	states of phone notifications to	Quick flashing	Telephone notification transmission in progress		
100	TA NOTH TEATIONS		remote receiving devices.	On	Telephone notification transmitted successfully		
Noto: Batt	ery LED - the notification	on remair	ns visible until the alarms are rese	t. only if automatic ackr	nowledgement of faults is turned off.		



CENTRO SOFTWARE

The dialler can be set using a PC running the configuration software "Centro"

The table lists the programming menus of TFCOM with a brief functional description.

	Menu	Description
_	Phone dialer	Setting of the eight notification phone communicators and of the Call back communicator. For each communicator it is possible to set a primary and a secondary phone number, a communication protocol and an identification code.
	Report codes	The associations between report codes and phone communicators is free. Each event can be associated with one or more communicators.
	Zone report codes	The associations between zone report codes and phone communicators is free. Each System zone can be associated with one or more communicators.
	Timers	Timer settings that determine communicators activation delay (only for fire alarm events) and the delay in reporting no power supply from RS485 bus line.
	Security	Setting of the Passphrases used by the communicators for communication encryption. Please note: the use of the Passphrase should be agreed with the recipients of the communication.
Centro	Options	Setting of the automatic acknowledgement of system faults, of the global muting of the phone cycle, of the initial voice message, of the redirection to GPRS and of the redirection to IP.
	PSTN	Setting of functional parameters of the PSTN phone carrier, enabling of the responder function, selection modes, line testing, enabling to control of answer and control unit phone tones.
	GSM	Enabling of GSM telephone carrier, enabling of the responder function, setting of the number of rings on answer, entry of SMS header.
	GPRS	Enabling of the GPRS communication carrier and setting of network access parameters.
	SMS - Credit	Setting of phone credit request mode for prepaid SIM Cards.

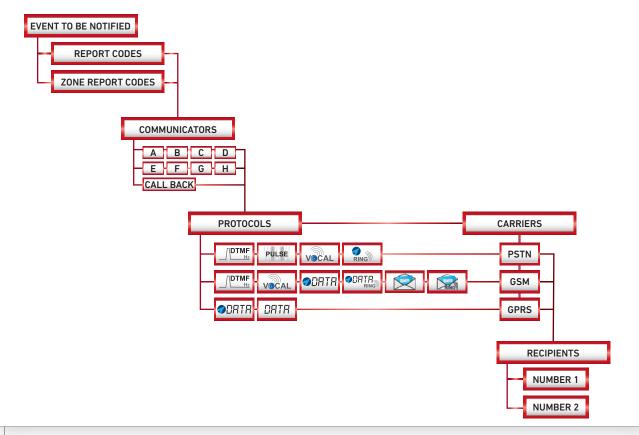
OPERATING LOGIC

The operating logic of the TFCOM phone dialer can be summarized as follows: System functional events are notified by the communicators, with the communication modes and the carrier defined by the protocol. In detail, settings define the function and the communication mode of the eight phone communicators. The settings associate to the communicators the events to be notified and the

communication protocol to be used, the protocol in turn defines the transmission means, that is the communication carrier.

The last setting necessary to forward notifications is the target phone number or IP address of phone notifications.

The logical interaction of the elements described is schematically shown in the following block diagram.





OPERATING PARAMETERS

The eight communicators operate independently according to the operating parameters set:

Phone numbers

Phone numbers no. 1 and no. 2 are the recipients of event notifications (for GPRS protocols in place of the number you can set the IP address). The first number is the primary recipient, the second number is called only if the communication to the first recipient fails.

For the syntax of the IP addresses you can use two modes, address only or address and communications port: IP address - The IP address consists of 4 numeric

fields, interspersed by a character, dot or dash, in this case the dialer uses the port set for the TECNOSERVER TECNOALARM Client channel.

IP address and communication port - In this case a 5th numeric field that defines the port is appended to the 4 numeric fields of the IP address. The 5 fields must be separated by the dot or dash character.

ID (identification)

Numeric code (max. 6 digits), with which the recipient (alarm reception centre) identifies the origin of the notification.

If the ID is not set, the communicator sends the identification of the control unit.

Protocol

Communication mode of the notification.

The communication protocol can be either audible or digital.

The use of digital protocols should be agreed with the receiving reception center.

See table of available protocols.

PHONE COMMUNICATORS

To send alarm notifications, the dialer uses the PSTN phone carrier and, if available, the optional TFESP GSM-GPRS module, provided with GSM and GPRS communications carriers.

The dialer manages 8 independent phone communicators, identified with the characters A through H.

The forwarding priority of the alarm notifications sent by the communicators are managed by the System according to a priority criterion, based on the alphabetic identification of the communicator (communicator A has the highest priority, communicator H has the lowest priority). Therefore, it is necessary that the most important notifications are associated with the priority communicators, privileged in issuing notifications in the following order:

A, B, C, Ď, E, F, G and H (where H has the lowest priority). The communicators are logical units that deal with managing communication in the following manner: Dialling the phone number of the addressee of the notification.

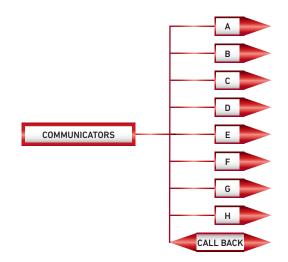
Carrying out the communication, and if necessary repeat the attempt according to the rules dictated by the notification cycle.

Recording in the Event log the outcome of the communication.

Managing the dialer signalling LED

"TX NOTIFICATIONS".

Reporting any faults related to its functioning and to the success of the phone notification cycle.



EVENT QUEUE

When an event occurs, the dialer checks whether the event is associated with a communicator. If the event is associated it becomes an item of the "Event Queue". The Event Queue can hold up to 64 items.

The Event Queue is processed according to the following rules: Communicator - Order of priority of communicators from A (highest priority) to H (lowest priority).

Forwarding Priority - Order of priority of communicable event categories: 1 High Priority, 2 Medium Priority, 3 Low priority.

History - Chronological order, in case of equal priority the oldest event is processed.

When an event with a higher priority than the queue under management occurs, the current call is aborted to manage the priority event, the aborted call is queued and will be handled as soon as possible.

The communicator sends within the same communication session all the events of the queue associated with it.



COMMUNICATION PROTOCOLS AND CARRIERS

The protocol is the way in which the phone notification is communicated. Each protocol contains its own operating rules, concerning how the message is notified (how do I communicate it?) and the means of communication, that is the carrier with which the message is forwarded to the recipient (what do I use to communicate it?). The selection of a communication protocol must be made as a function of the communication carrier that you want to use (I communicate it with!), and of the recipient to whom you want to send the message (how I communicate it!). The communication carriers are the transmission means through which the notifications are sent to the

recipient in the mode defined by the protocol. The communication carriers of the TFCOM dialer are: PSTN - public switched telephone line, basic provision. GSM/GPRS - Phone module TFESP GSM-GPRS, optional expansion.

The "Carrier Protocols" tables list the available communication protocols sorted by carrier. For each protocol the following information is provided: the numerical identification code, the name, the description, the transmission mode, the Encryption used and the Timestamp when available and whether the protocol operates in Backup mode.

PSTN carrier protocols							
Carrier		Number / Name	Description	Mode	Encryption	Timestamp	Backup
	000	Tecno	Tecnoalarm	/DTMF			
	001	Vocal	Voice message	VOCAL			
	800	Tecno RING	Tecnoalarm Tecno ring	RING			
	009	Voc.CF	Voice message w.conf.	VOCAL			
	114	SIA 1	fsk sia 1	PULSE			
	122	SIA 2	fsk sia 2	PULSE			
Co	131	DTMF C.ID s	Ademco Contact ID (single)	DTMF			
PSTN	139	DTMF C.ID	Ademco Contact ID	DTMF			
	196	Vocal	Voice message	VOCAL			GSM (193)
	200	Tecno	Tecnoalarm	DTMF			GSM (160)
	204	Vocal CF	Voice message w.conf	VOCAL			GSM (201)
	209	DTMF CID	Ademco Contact ID	DTMF			GSM (208)
	212	DTMF CID	Ademco Contact ID France	DTMF			GSM (211)

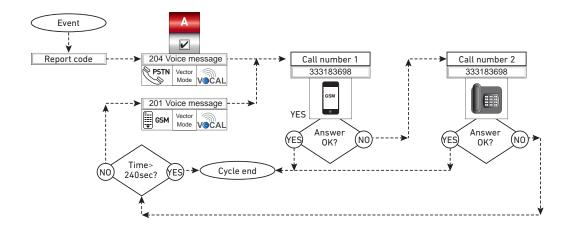
GSM carrier protocols table							
Carrier		Number / Name	Description	Mode	Encryption	Timestamp	Backup
	166	SMS	SMS	ams.			
	167	SMS RING	SMS whit ring	RING			
	175	Tecno GSM-DATA	Tecnoalarm GSM-DATA	⊘ DRTR			
	183	SMS Credit	SMS whit airtime request				
	190	Tecno RING GSM	Tecno GSM DATA Ring	⊘ DATA RING			
GSM	193	Vocal	Voice message	VOCAL			
	201	Vocal CF	Voice message w.conf	VOCAL			
	208	DTMF CID	Ademco Contact ID	DTMF			
	211	DTMF CID	Ademco Contact ID France	DTMF			

GPRS carrier protocols									
Carrier	N	lumber / Name	Description	Description Mode			Backup		
	115	SIA-GPRS-T	SIA-GPRS-T Reporting [TCP-2007]	DATA		~			
	116 C.ID-GPRS-T		C.ID-GPRS-T Reporting [TCP-2007]	DATA		~			
	117	SIA-GPRS128b	SIA-GPRS Encrypt 128 [TCP-2007]	DATA	AES 128 BIT ENCRYPT				
	118	C.ID-GPRS 128b	C.ID-GPRS Encrypt 128 [TCP-2007]	DATA	AES 128 BIT ENCRYPT				
GPRS	156	SIA-GPRS 256b	SIA-GPRS Encrypt 256	DATA	AES 256 BIT ENCRYPT				
	157	C.ID-GPRS 256b	C.ID-GPRS Encript 256	DATA	AES 256 BIT ENCRYPT				
	182	Tecno GPRS-DATA	Tecnoalarm GPRS-DATA	⊘ DRTR	AES 128 BIT ENCRYPT				



BACKUP PROTOCOLS

A Backup Protocol normally carries out its phone cycle using the PSTN carrier. If for any reason the PSTN carrier fails to notify the event, the Backup protocol automatically activates the GSM carrier and, using a protocol compatible with the carrier, repeats the attempt to execute the phone notification cycle.



NOTIFICATION CYCLE

The phone notification cycle is governed by a maximum execution time of 240 sec., within which the cycle of calls in progress must end. When the maximum time has elapsed, the phone cycle stops and the communication fault report is activated.

The communicators execute alarm notification calls according to precise functional rules defined by the Notification Cycle.

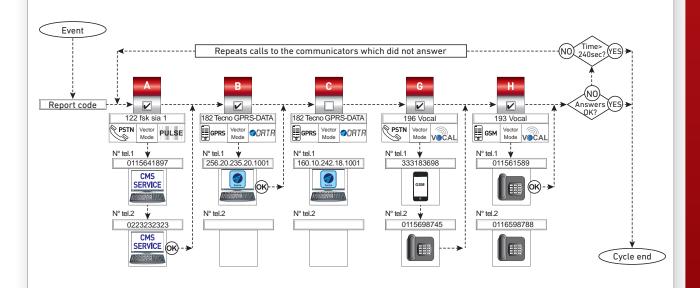
The Notification Cycle is performed according to the following rules:

The recipient no. 1 (main) is contacted, if it cannot be reached, the recipient no. 2 (secondary) is contacted.

If both recipients do not answer, the dialer selects the possible next communicator associated with the event, repeating the calls. If the communicator within 240 sec fails to notify the events to the phone numbers associated with it, the control unit activates the communication failure report. The failure is also recorded in the event log of the control unit.

Note: the maximum time limit of the phone cycle is set by the standard EN 54-21: 2006.

To avoid unnecessary fault messages due to the continuation of the telephone cycle, it is recommended to limit its duration and to avoid associating too many phone communicators to the events.





REPORT CODES

The dialer notifies the System events by sending report codes. The TFCOM dialer manages two types of report codes, the first called "Report Codes" sorts all System events in homogeneous categories. Enabling the category you enable transmission of all events grouped in it. The second, called "Zones report codes" only includes events relating to Zones, and provides the possibility to freely associate the events of each zone and of each single control unit to the telephone communicators.

The table "Categories of transmissible events" lists

all report codes categories. The grouped events, their description and transmission priority are provided for each of them. To simplify the setting procedure, the events are grouped into homogeneous categories. Enabling a category you enable the transmission of all the events grouped in it.

The communicator sends within the same communication session any events associated with it. The phone cycle is momentarily stopped if events with highest priority must be transmitted by other communicators.

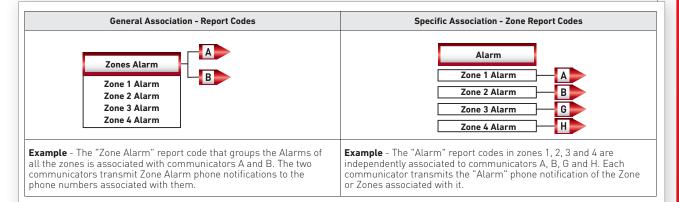
	Report codes categories									
CR and CRZ	Zones Alarm Priority 1 (high)	Zones Alarm	CR	System General Reporting Priority 3 (low)	Line reset					
60	Module sensor alarm	Sensors alarm	- CD	System Fault	System failure					
CR	Priority 1 (high)	Modules alarm	CR	Priority 2 (normal)	System fault reset					
CR and CRZ	Zones alert Priority 1 (high)	Zones alert	CR	Zones exclusion Priority 3 (low)	Zones exclusion line reset					
CR	Sensor Modules Alert	Sensors alert	CR	Zones inclusion	Zones inclusion					
CR	Priority 1 (high)	Modules alert	CR	Priority 3 (low)	Zones inclusion					
CR and CRZ	Zones Technical Alarm Priority 3 (low)	Zones Technical Alarm	CR	Devices Exclusion (BUS485) Priority 3 (low)	Devices exclusion					
		Sensor Technical Alarm	CR	Devices Inclusion (BUS485)	Devices inclusion					
CR	Module sensor technical alarm	Module Technical Alarm	CR	Priority 3 (low)	Devices inclusion					
CR	Priority 3 (low)	Sensor technical alarm reset	CR	Control Unit repetition exclusion	Donatition and min					
		Module technical alarm reset	CR	Priority 3 (low)	Repetition exclusion					
CR and CRZ	Zones Fault Priority 2 (normal)	Zones Fault	CR	Control Unit repetition inclusion Priority 3 (low)	Repetition inclusion					
CD	Module sensor fault Priority 2 (normal)	Sensor fault	CD	Manned	Manning activation					
CR		Module fault	CR	Priority 3 (low)	Manning deactivation					
		Device Fault	CR	Sirens	Sirens muting					
CR	Devices Fault (RS485) Priority 2 (normal)	Timer Reset		Priority 3 (low)	Sirens Reset					
	Triority 2 (normal)	Device fault reset	CR	Reset	Reset					
CR	Alarm Acknowledgement	Al	CR	Priority 3 (low)	Reset					
CR	Priority 3 (low)	Alarm category acknowledgement	CR	Evacuation	Evacuation activation					
CR	Alert acknowledgement	Alert category acknowledgement	CR	Priority 3 (low)	Evacuation activation					
CR	Priority 3 (low)	Aterit category acknowledgement	CR	Cyclic test	Cyclic test					
CR	Technical alarm acknowledge- ment	Technical alarm category acknowl-	CR	Priority 3 (low)	Cyclic lest					
CR	Priority 3 (low)	edgement	CR and	Zone Technical Alert	Zone Technical Alert					
CR	Fault acknowledgement	Fault category acknowledgement	CRZ	Priority 3 (high)	Zone technical alert reset					
CK	Priority 2 (normal)	Fault category acknowledgement			Sensor technical alert					
CR	User operations	Alart automatic asknowledgement	CR	Module sensor technical alert	Module technical alert					
CK	Priority 3 (low)	Alert automatic acknowledgement	CR	Priority 3 (high)	Sensor technical alert reset					
CR	Module sensor exclusion	Sensor exclusion			Module technical alert reset					
CR	Priority 3 (low)	Module exclusion		Technical alert acknowledgement	Technical alert category acknowl-					
CR	Module sensor inclusion	Sensor inclusion	CR	Priority 3 (low)	edgement					
CK	Priority 3 (low)	Module inclusion								
CR	Event download request Priority 3 (low)	Event memory download								

Report code classification - the acronyms CR and CRZ indicate the classes: CR = Report Codes - codes = CRZ Zone Report Codes

Note - The report codes of Zone functional states can be associated with the communicators in the modes: General Association and/or Specific Association

General association - To define general associations, from Centro software use the setting screen "Report Codes". **Specific association** - To define specific associations, from Centro software use the setting screen "Zone Report Codes". With the general association the communicator/s are associated with the type of event for all the zones of all the control units. With the specific association, the events of each zone of each control unit that makes up the system can be freely associated to the communicators.





ACKNOWLEDGEMENTS

The recipients of the calls, either users or automatic alarm reception devices, can stop the call in progress with set commands.

Muting from alarm reception centre After a call, all the alarm reception centres automatically send the muting command to the dialer.

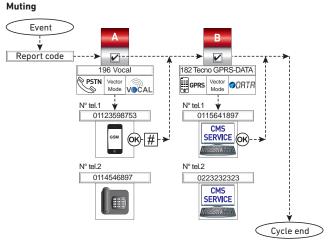
Voice calls

For voice calls, it is the online user that sends the muting command. During the call, after listening to the

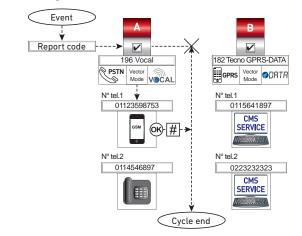
message, the user can mute the communicator by typing from the keyboard of his telephone the key [*] or (#).

Global muting of communicators

Muting can also be set as global muting, enabling the function "Dialer global muting" in the Options menu. In this case a muting command stops the current call and disables all subsequent calls to all the communicators associated to the muted event



Global muting

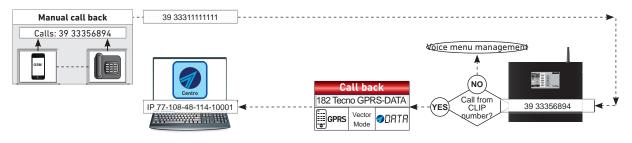


TCP/IP REMOTE MANAGEMENT

With the Call back communicator you can remotely manage the System. Remote management can only be executed via the GPRS carrier. The Tecnoserver (TCP/IP remote management) allows to execute the Call back request in CLIP mode. The Call back request can be forwarded to the TFCOM dialer with any phone, provided that its number is equal to the number set in the CLIP field of the Call back Communicator. The TFCOM dialer verifies the number the call is coming from and if it is

equal to the CLIP number, activates the Call back call using the GPRS carrier with the communication protocol 182 GPRS-DATA.







DEDICATED ACCESSORIES

TFESP GSM-GPRS

















The TFESP GSM-GPRS is a GSM 2G interface for the telephone communicator TFCOM. Transmission formats: Voice, SMS, Ring, DTMF, Data - AES 128 bit and AES 256 bit data encryption - Independent passphrase for each channel - Automatic airtime request for prepaid SIM cards - Plug-in connection to TFCOM board

EN 54-21:2006 - Certification number 0051-CPR-0454 (approved for use with TFA1-298, TFA2-596 and TFA4-1192 control panels)

Item no. TF2TFESPGSMGPRS

TFCOM - Technical data and functions

TFCOM	Device Name	Overview
Phone dialer	Description	
FIRE-BUS	Communication protocol	
Dip-switch	Addressing	
Bus RS485	Connection	
Yes	Speech synthesis	Telephony
8	Communicators	
8+8 (24 characters)	Phone numbers - IP addresses	
33 (categories)	Communicable events	
5 (types)	Transmittable zone events	
29	Communication protocols	
32	Telephone queue items	
ATE2	PSTN phone transmitter	PSTN carrier
ETSI ES 203 021-1	PSTN carrier compliant	
Vocal mode 12sec Contact ID17 sec	Transmission time D4 10sec	
Vocal mode 12sec Contact ID19 sec	Transmission time M3 60sec	
TFESP GSM-GPRS	GSM-GPRS carrier (optional)	GSM-GPRS carrier
ATE4 (GPRS)	GSM phone transmitter	
SIA IP DC-09 10sec	Transmission time D4 10sec	
SIA IP DC-09 10sec	Transmission time M3 60sec	
Flash 1Gbi	Data memory	Hardware
USB port	Management interface	specification
Protected - Imax 750mA	Fault signalling relay	Outputs

Buffer battery	Flammability class	V-2 or higher
	Trip voltage	For Vbat <8,9V
	Current for battery charger	0.85A maximum
	Charge time	100% in 12 hours
Electrical specifications	Power supply	From Serial Bus
	Rated Voltage	24V DC
	Operating voltage	20V27.6V DC
	Typical draw (idle)	90mA @ 24V DC
	Max draw (when signalling)	140mA @ 24V DC
Physical specifications	Operating temperature:	-5°C+40°C
	Relative Humidity	10%93% (non condensing)
	Battery housing	1 (12V/7Ah)
	Protection class	IP30
	Enclosure	Metal
	Dimensions (L x H x D)	315 x 255 x 82mm
	Antenna height	65mm
	Weight	2.5Kg
RTTE 99/05/EC conformity	Class 1/TTE	CE 0889
Reg. 305/2011 conformity	Fire standard	EN 54-21:2006
	Phone standard	EN 50136-1-1 EN 50136-2-1
	Approval certificate	0051-CPR-0454
	Year of CE marking	16
	Number of the declaration of performance	016_TFCOM
	Certification body	IMQ
	Approved for use in combinat TFA1-298, TFA2-596 and TFA	tion with control units 4-1192

N.B. The declarations of conformity and performance can be found at: www.tecnofiredetection.com







