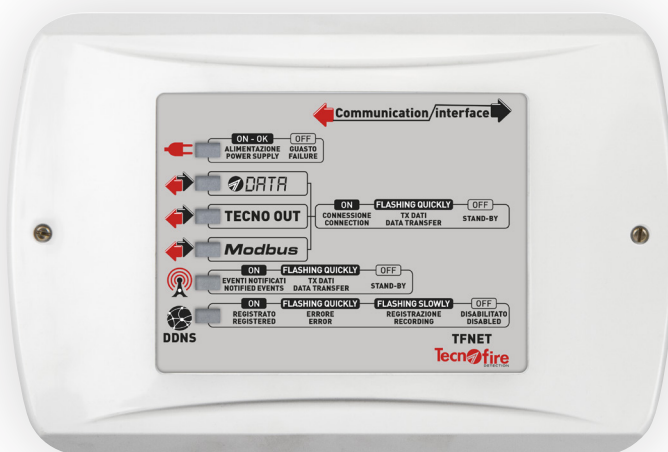


Telecommunication interface



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 EN 54-1

MODEL									
Name	Item no.								
TFNET	TF2TFNET								

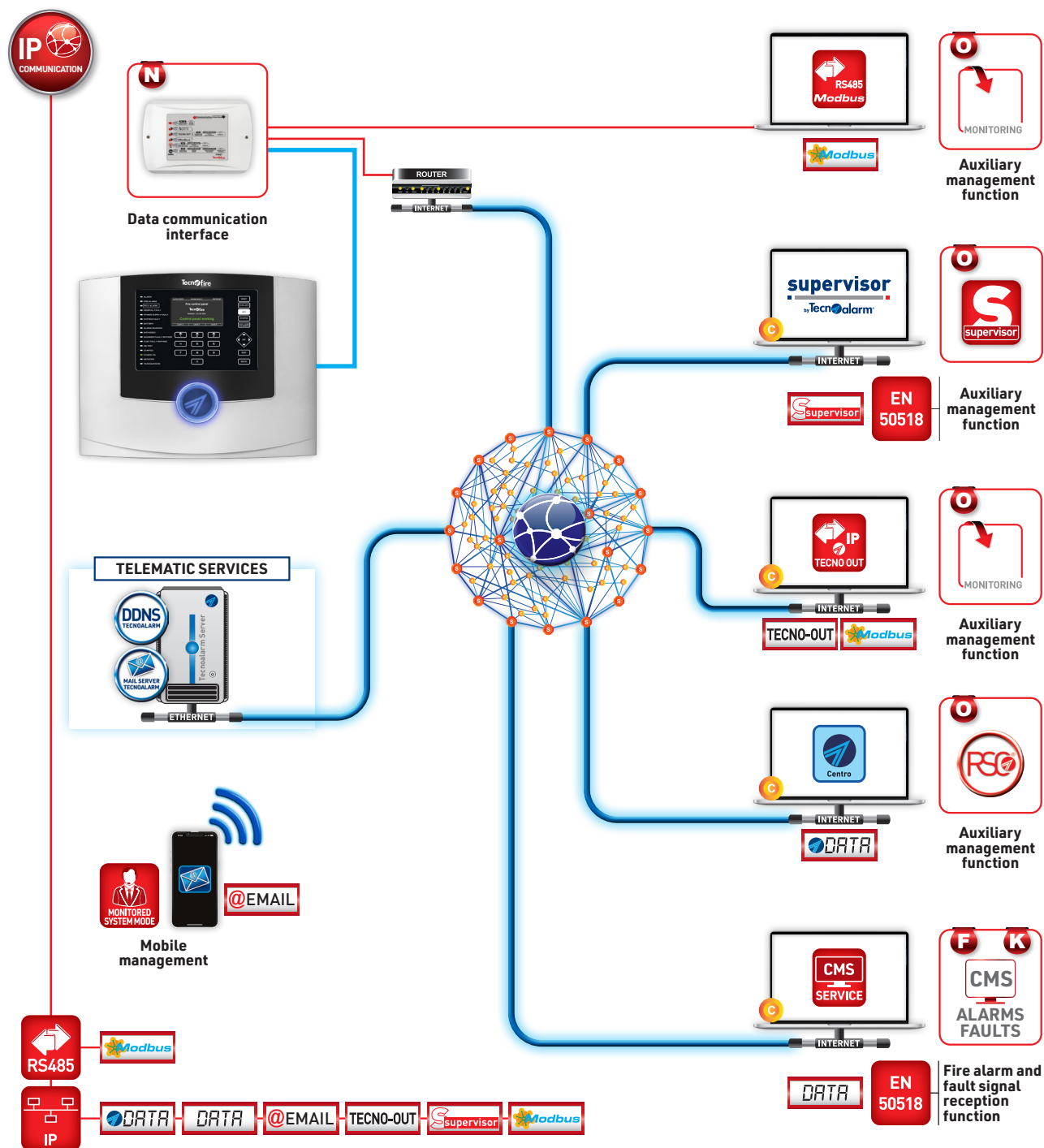
OBLIGATIONS AND WARNINGS

The TFNET communication interface has been designed and manufactured within the framework of an ISO 9001 quality management system, which provides for the application of a set of rules for the design phase and plans all subsequent testing and control activities necessary for its production. All components used have been selected for their intended purpose, and their characteristics are ensured when the environmental conditions correspond to those indicated for class 3K5 of EN 60721-3-3:1995. The interface may only be installed indoors, in a position protected from accidental impacts, and no temperature or humidity control is required in the installation environment. For the best use of the product, all system design and installation activities must be carried out in accordance with current national regulations.

TELECOMMUNICATION INTERFACE

The TFNET telecommunication interface integrates a 10/100 Mbit Ethernet IP node that can be connected to a LAN/ WAN. The TFNET interface integrates the management of Tecnoalarm telematic services: DDNS, SNTP, and Mail Server. The IP communication vector expands and diversifies the event telematic capabilities of Tecnofire Systems. Specific software options allow the TFNET interface to perform the auxiliary management function, with proprietary and third-party environments and applications. In particular, with the Tecnoalarm Supervisor management environment, the TFNET interface guarantees the most complete functional and operational integration, for the auxiliary management function of the fire detection system.

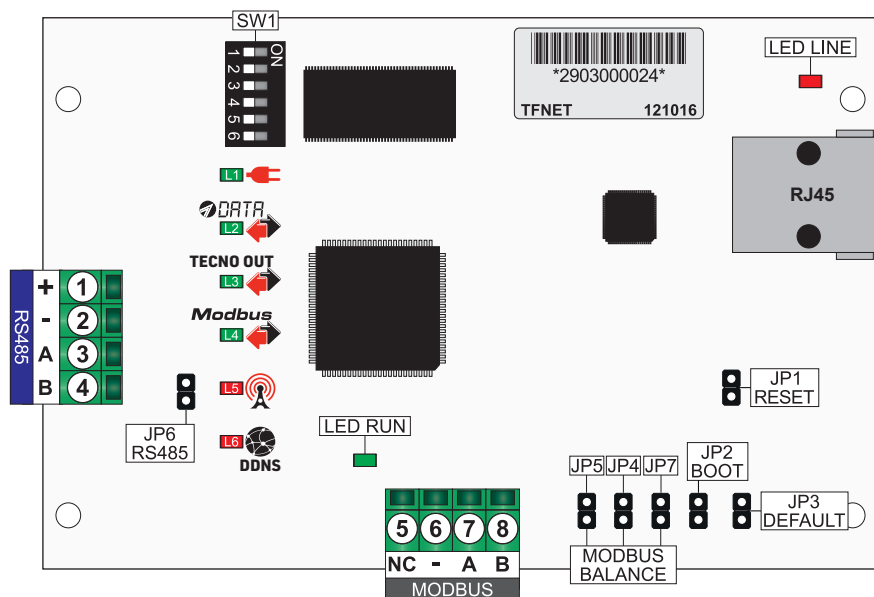
FUNCTION DIAGRAM



TELECOMMUNICATIONS SERVICES AND FUNCTIONS

Devices	Vectors	DDNS	MAIL	Vocal	Vocal	SMS	Remote management	Supervisor	Tecno out	Modbus	CMS
TFNET	IP	✓	✓	-	-	-	✓	✓	Optional	Optional	✓

ELECTRONIC BOARD



BUS RS485			
1	+	Supply positive	
2	-	Supply negative	
3	A	Communication channel A	
4	B	Communication channel B	

RS485 MODBUS BUS			
5	NC	Not connected (terminal not used)	
6	-	Reference negative of RS485 BUS output	
7	A	Communication channel A	
8	B	Communication channel B	

Ethernet RJ45 connector			
1	White / Green	5	White / Blue
2	Green	6	Orange
3	White / orange	7	White / Brown
4	Blue	8	Brown

Led	Colour	Function
LED RUN	Verde	LED monitoring the functional state of the device. Flashing: normal operation state
LED LINE	Rosso	LED signalling that the device is using the Ethernet line

Identification	Condizione normale	Funzione
JP1 - RESET	 Open	Hardware reset
JP2 - BOOT	 Open	Used to update the firmware of the product (RJ45 port Ethernet connection)
JP3 - DEFAULT	 Open	No function (reserved for future developments)

Identification		MODBUS BUS balance			
JP4	MODBUS BALANCE	 Open	RS485 MODBUS line not terminated	 Closed	RS485 MODBUS line terminated
JP5		 Open		 Closed	
JP7		 Open		 Closed	

Jumper JP6 - Termination of RS485 serial line		
JP6 RS485	 Open	With the jumper open, the Bus is not terminated. Open the jumper when the device is not the last device connected on the Bus. Condition valid for both wiring configurations of the line Bus: open or closed.
	 Closed	With the jumper closed, the Bus is terminated. Close the jumper when the device is the last device connected on the Bus. Of course only if the connection Bus is in open line configuration.

SW1 Serial address setup													
Address	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6	Address	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
0	OFF	OFF	OFF	OFF	OFF	OFF	9	ON	OFF	OFF	ON	OFF	OFF
1	ON	OFF	OFF	OFF	OFF	OFF	10	OFF	ON	OFF	ON	OFF	OFF
2	OFF	ON	OFF	OFF	OFF	OFF	11	ON	ON	OFF	ON	OFF	OFF
3	ON	ON	OFF	OFF	OFF	OFF	12	OFF	OFF	ON	ON	OFF	OFF
4	OFF	OFF	ON	OFF	OFF	OFF	13	ON	OFF	ON	ON	OFF	OFF
5	ON	OFF	ON	OFF	OFF	OFF	14	OFF	ON	ON	ON	OFF	OFF
6	OFF	ON	ON	OFF	OFF	OFF	15	ON	ON	ON	ON	OFF	OFF
7	ON	ON	ON	OFF	OFF	OFF	16	OFF	OFF	OFF	OFF	ON	OFF
8	OFF	OFF	OFF	ON	OFF	OFF							

Notes: setting address 0 disables the operation of the communicator. Accepted addresses range from 1 to 16. All other logic combinations are reserved.

SOFTWARE PLUG-INS			
TFABIL-MODBUS	Enables the TFNET to manage the ModBus communication protocol. For the MODBUS protocol, the TFNET uses either the RS485 communication ports and/or the LAN/WAN port.		 
	Item no. TF2TFABILMODBUS		
TFABIL-TECNO	Enables the TFNET to manage the TECNO OUT communication protocol. For the TECNO OUT protocol, the TFNET uses the LAN/WAN communication port.		
	Item no. TF2TFABILTECNO		
TFABIL-FAT FBF	Enables the TFNET to manage the FAT and FBF4000 communication protocols. For both protocols, the TFNET uses the RS485 communication port.		 
	Item no. TF2TFABILFATFBF		

Technical and functional specifications

General information	Communication interface	TFNET
	Communication protocols	FIRE-BUS
	Addressing	Dip-switch
	Connection	Bus RS485
TLC features	Telecommunications vector	IP
	Telecommunication channels	8
	IP addresses	2 for each channel
	Report codes	33 categories
	Report codes Zones	5 typology
	Communication protocols	11
	Call event queue	64
	Encryption	AES 128/256 bit
	Passphrase	Programmable
	TCP/IP Server channels	Server 1 Server 2 Tecnoserver Tecnoalarm Service Tecnoalarm Tecno out Modbus
Advanced management	Integrated enabling	Supervisor
	Optionals software plug-in	Tecno out ModBus FAT FBF4000
Telematic services	Managed Services	DDNS Tecnoalarm Mail Server Tecnoalarm SNTP
Automated managements	Cyclic communication test	Programmabile
ModBus	Management interfaces	RS485 Ethernet port
	TCP/IP protocols	TCP RTU TCP ASCII TCP
	RS485 protocols	RTU485 ASCII485
	RS485 parameters	Programmables
	LAN address	Programmable
Electrical specifications	Power supply	From serial Bus
	Nominal voltage	24V DC
	Operating voltage	20V...27.6V DC
	Consumption in stand-by	90mA @ 24V DC
	Maximum consumption	140mA @ 24V DC
Physical specifications	Environmental class	3K5 EN 60721-3-3:1995
	Operating temperature	-5°C...+40°C
	Relative humidity (without condensation)	10%...93%
	Protection class	IP3x
	Casing	ABS
	Dimensions (L x H x D)	165 x 110 x 41mm
Conformity	Weight	200g
Conformity	System compatibility	EN 54-13:2020
	Reference standard	EN 54-1

N.B. Declarations of conformity and performance are available on www.tecnofireddetection.com



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The product features can be subject to change without notice.

MADE IN ITALY

TFNET - DATA SHEET - REL. 2.0