NITTAN

FIRE DETECTION SYSTEM

FX/10
FX/20
FX/50

FX/50

FX/10

FX/20

WINFIRE

Global Management

- Security
- Fire Detection
- Analogic
- Addressable
- Remoting Control

THE NEW FRONTIER OF FIRE DETECTION SYSTEMS

- Products and systems comply with EN54 standards for the safeguarding of industrial, commercial and residential environments;

- Available versions: 1,2,5 revelation loop;

- 254 addresses per loop;

- Managing zones: up to 40 (FX/10 and FX/20), up to 120 (FX/50);

- Led for control unit and zone status;

- Integrated key pad for programming purposes;

- 4 x 20 character LCD display;

- Wide range of components which can be introduced on detection loop: optical smoke detectors, heat detectors, line isolators, input modules, output modules, control and supervision modules for conventional detectors, control modules for sounders, loop sounders and pushbuttons;

- Management of repeaters, remote visual display and power supply units, through peripheral loop (FX/20 and FX/50 only);

- Multilanguage control units;

- Control units and PC Network (FX/20 and FX/50 only);

- WINFIRE software using Windows OS with programming function in direct and remote connection, remote service, graphic software in mono and multi-control unit mode (FX/20 and FX/50 only);

- Self-learning device on loop with identification of double addresses;

- Advanced handling of maintenance by means of the definition of detector percentage parameters, alarm and printer type;

- "Intelligent" 4A @ 24V power supply unit;

- EN54 standard parts 2 and 4 compliant;

- IMQ Homologation - Security Systems;

- CPD certification pending.

RS485

TCP/IP

FX/485

FX/20

RS232

CNV CONVERTER

FX/GRMAP

MODEM

FX/CFG

Global Management

LAN

ETR LAN

GLOBAL MANAGEMENT
supervision software

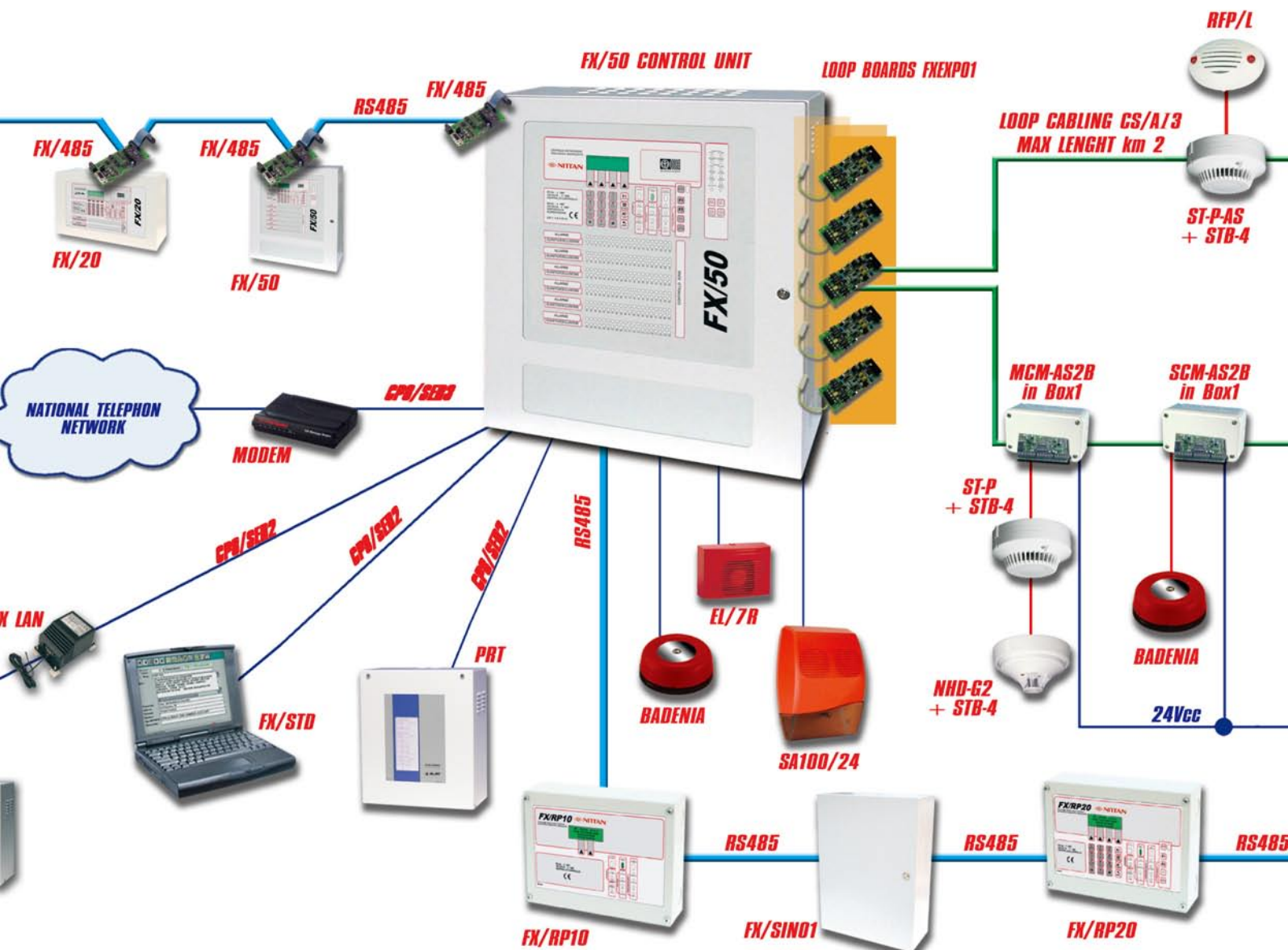**ETR 512**

COMPONENTS

Detectors

Optical smoke and heat detectors capable of detecting the outbreak of any fire which might occur in any type of environment in which they are installed. Compliant with EN54 standard parts 5 and 7, CPD certification.

Loop modules

Wide range of modules which can introduced on the detection loop, example input modules for the interfacing of traditional equipment to the system, output modules for driving alarm devices, modules for supervising conventional detectors, activating sounders and line insulators.

RFP/L

FX/485   **RS485**

FX/50 CONTROL UNIT

LOOP BOARDS FXEXP01

LOOP CABLING CS/A/3 MAX LENGHT km 2

FX/485   **FX/485**

FX/50

FX/20   **FX/50**

ST-P-AS + STB-4

NATIONAL TELEPHON NETWORK

CPU/SER3

MODEM

MCM-AS2B in Box1   **SCM-AS2B in Box1**

ST-P + STB-4

RS485

CPU/SER2   **CPU/SER2**   **CPU/SER2**

LAN

EL/7R

PRT

FX/STD

BADENIA

NHD-G2 + STB-4

BADENIA

24Vcc

SA100/24

FX/RP10   **RS485**   **FX/SIN01**   **RS485**   **FX/RP20**   **RS485**

Accessories

Wide range of accessories necessary for completing the fire detection system, such as printers, repeaters and mimics. Connection of repeaters and mimics on peripheral loop RS485 up to a maximum of 15 devices.

Auxiliary
intelligent power supply units FX/AL01

Handling of up to a maximum of 15 intelligent power supply units on the peripheral loop with control of the network voltage, voltage supplied, battery voltage, current absorbed by the control unit, charging current of the battery and internal temperature of the power supply unit. Complies with EN54 standard part 5 and 7, and CPD certification.
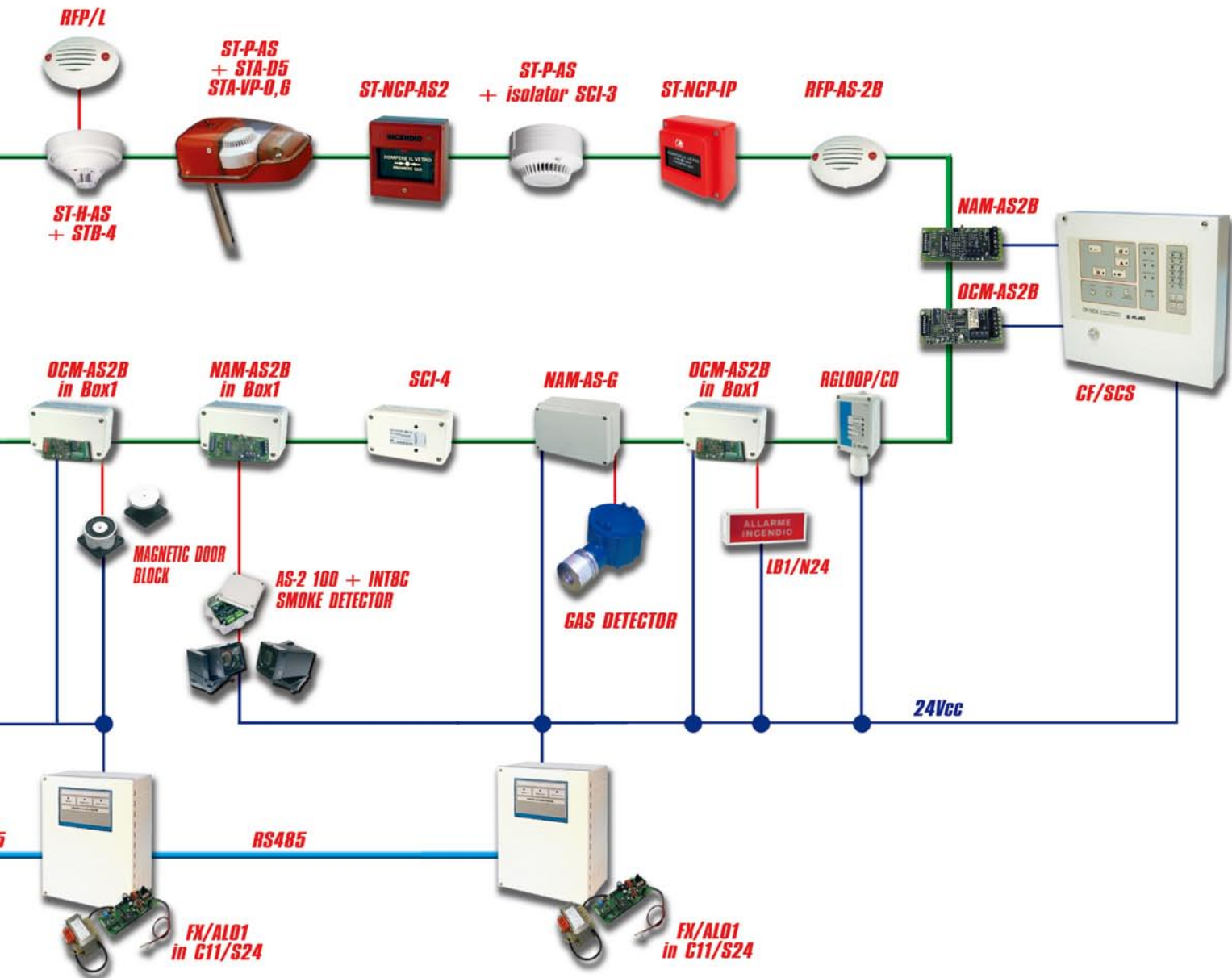
Alarms signalers

Wide range of alarms such as self-powered outdoor sirens, indoor sirens, optical-acoustic warning signals in mono and bi-facial mode. Optical-acoustic repeaters for signalling sensor status.

Graphic s

Global Manager System Supervi possible to centra connected syste detection syste systems, CC.TV systems and ind controls.

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RFP/L

ST-P-AS
+ STA-D5
STA-VP-0,6

ST-NCP-AS2

ST-P-AS
+ isolator SCI-3

ST-NCP-IP

RFP-AS-2B

ST-H-AS
+ STB-4

NAM-AS2B

OCM-AS2B

CF/SCS

OCM-AS2B
in Box1

NAM-AS2B
in Box1

SCI-4

NAM-AS-G

OCM-AS2B
in Box1

RGLOOP/CO

MAGNETIC DOOR
BLOCK

AS-2 100 + INT8C
SMOKE DETECTOR

GAS DETECTOR

ALLARME INCENDIO
LB1/N24

24Vcc

RS485

FX/AL01
in C11/S24

FX/AL01
in C11/S24

upervision
software

Remote service
software

Control unit network

Extinguishing
control unit

ment: Technologic
isor software. It's
ralize and managing
ems like Intrusion
ems, Fire control
V, Access control
dustrial application

WINFIRE remote service and pro-
gramming software developed in
WINDOWS operating system.
Permits direct connection for pro-
gramming on-site and remote con-
nection for remote service program-
ming operations.

Network connection of up to a maxi-
mum of 16 control units which
makes it possible to create fire
dete0ction systems of considerable
range, such as those installed to
protect airports, large industrial
installations, hospitals, military
zones, etc.

Extinguishing control unit with
manual/automatic operations.
Complete supervision over pressure
switch status, solenoid value com-
mand, evacuation output and extin-
guishing inhibition.

Features of the FX/10, FX/20, FX/50 series control units

FX series analogue addressable multiprotocols multilanguages fire detection control units which combine elevated technical characteristics with easy handling, both for the user and the installer. Especially suitable for the protection of industrial, commercial, banking, postal, tertiary, hotel, hospital, museum and military concerns and establishments.

Model	FX/10	FX/20	FX/50
Number of detection loops	1	Up to 2	Up to 5
Number of addresses per loop	254		
Number of zones	40		120
Fault relay output	1		
Alarm relay output	1 freely programmable		
Supervised alarm outputs	1 freely programmable	2 freely programmable	4 freely programmable
24Vcc output	1		
General signalling LEDS	YES		
Zone LEDS	Up to 40		Up to 120
LCD display	4 rows each with 20 characters		
Key pad	Integrated for operating and programming		
Levels of operation	4 levels of access with 10 associated user passwords from transition 1 to level 2 and 10 associated installer passwords from transition 2 to level 3		
Peripheral loop	/	1 for the management of the repeaters, mimics and "intelligent" power supply units	
Extinguishing operation	Via external control unit		Predisposition for insertion of CF/EXP212 board in control unit
Remote control	With WINFIRE software mod. FX/MAP and FX/CFGMAP	With WINFIRE software mod. FX/CFG, FX/CFGMAP and FX/GRMAP	
Upload/download	Through WINFIRE software mod. FX/STD on direct connection		
Graphic management software	*With WINFIRE software mod. FX/CFGMAP*	With WINFIRE software mod. FX/CFGMAP and FX/GRMAP	
Control unit and PC network	NO	YES	
Software characteristics	- Multilingual control unit; - Management of input devices by means of logical events and system events; - Management of output devices by means of logical events, system and patterns events; - Definition of filters for the management of the events memory and printer; - Definition of 80 logical equations with AND and OR operators for the advanced handling of extinguishing; - Weekly programmer with day/night facility; - Definition of hour/day with summertime/wintertime changeover (GMT/BST); - Reset functions; - Detector check functions; - Delay mode function; - Sensitivity function with freely programmable threshold for alarms, pre-alarms and maintenance; - Self-learning devices on loop with identification of double addresses; - Advanced handling of maintenance by means of the definition of the detector percentag parameters, alarm type and printer;		
Events memory	Last 4.000 events with graphic display of the historic memory of the devices		
Power supply unit	4A @ 24Vcc whereof: 1.5A for battery charger, 0.5A maximum at load point for auxiliary devices power supply		
Assignable battery back-up	2 x 6,5Ah/12V	*2 x 15Ah/12V*	*2 x 24Ah/12V*
Mains supply	*230Vac ;50Hz*		
Dimensions	W325 x H304 x D133mm	W480 x H303 x D180mm	W500 x H570 x D190mm
Normative	EN54 standard parts2 and 4		
Certifications	IMQ certification – Security systems		

• CE

• UNI EN 54-2 March 1999 standard compliant – Fire detection and fire alarm systems. Control and signalling control unit

• CPD certification pending

• UNI EN 54-4 March 1999 standard compliant– Fire detection and fire alarm systems. Power supply equipment

• IMQ Certification - Security systems

FX SERIES ANALOGUE ADDRESSABLE CONTROL UNITS CE - EN54

FX/10: Control Unit, 1 loop, 254 devices per loop, 40 zones, 1 relè output, 1 supervised output, signalling LED, Keyboard or PC programming, printer output, maintenance handling, 4x20 digit LCD display, 24V-4A power supply external unit, 230Vac/50Hz power supply, dimensions: W325 x H304 x D133 mm. CE and EN54 Standard Pt 2,4.

FX/20: Control Unit, up to 2 loop, 254 devices per loop, 40 zones, 2 relè output, 2 supervised output, signalling LED, Keyboard or PC programming, printer output, Network output, peripheral loop, main-tenance handling, 4x20 digit LCD display, 24V-4A power supply external unit, 230Vac/50Hz power supply, dimensions: W480 x H303 x D180mm. CE and EN54 Certificate Pt 2,4.

FX/50: Control Unit, up to 5 loop, 254 devices per loop, 120 zones, 2 relè output, 4 supervised output, signalling LED, Keyboard or PC programming, printer output, Network output, peripheral loop, main-tenance handling, 4x20 digit LCD display, 24V-4A power supply external unit, 230Vac/50Hz power supply, dimensions: W500 x H570 x D190mm. CE and EN54 Certificate Pt 2,4.

FX/MINILOOP: loop board for FX/10 control units.

FX/EXP01: Loop expansion board, 254 devices. (for FX20 and FX50 control units)

FX10/485: RS485 peripheral controller on FX/10 control units

FX/485: RS485 interface 2 channels.

FXLAN: external module for LAN connections of FX/20 and FX/50 central units. 10Base T Ethernet, CP - UDP - ICMP (ping) - ARP - TELNET supported protocols.

ETRLAN: LAN module for FX/10 control unit for LAN connection. 10 Base T Ethernet LAN interface, RJ45 connector. Supports CP, UDP, ICMP (ping), ARP, and TELNET protocols.

FX/EXP10: 40 zone led board.

FX/RP10: Remote repeater comprising LCD and LED general signalling display.

FX/RP20: Remote repeater comprising key pad, LCD and LED general signalling display. In metal housing. Dimensions W250 x H200 x D70 mm.

FX/SIN01: Mimic comprising driver board, 40-zone board with terminal outputs and with alarm and zone fault signalling. In closed housing.

FX/SIN10: 40-zone mimic expansion board with terminal outputs and with alarm and zone fault signalling.

FX/CNV: RS232/RS485 converter.

CP8/SER2: Connection interface for direct programming software and PRT printer connection.

CP8/SER3: Modem connection interface for remote programming and remote service connection.

LOW PROFILE NITTAN ADDRESSED ANALOGIC REVELATION DEVICES

ST-P-AS: addressed analogic smoke revelation device with Tyndall effect system, adjustable threshold through central unit programming, remote signalling LED output.

ST-H-AS: addressed analogic temperature revelation device, adjustable threshold through central unit pro-grammation, remote signalling LED output.

STB-4: fixing standard supports for revelation devices modd: ST-P, ST-P-LV, ST-P-AS, ST-H-AS, NHD-G2, 2SC-LS e VCT-03NTAS.

WINFIRE SOFTWARE FOR FX SERIES CONTROL UNITS

FX/STD: Local configuration software in direct mode.

FX/CFG: Local configuration software in direct and remote mode. Remote functions.

FX/CFGMAP: Graphic supervision software for individual control units. Permits the configuration in direct and remote mode with remote functions.

FX/GRMAP: Graphic supervision software for networks of control units and networks of Personal Computers. Permits the configuration in direct and remote mode with remote functions.

GLOBAL MANAGEMENT: Global Supervision System software, local and remote state of Alarm, Fire Detection, CCTV, Access Control Systems

"INTELLIGENT" POWER SUPPLY UNIT FOR FX SERIES CONTROL UNITS- EN54.

FX/AL01: 24V-3.5A supervised power supply unit. Without housing (can be fitted in C11 housing - not included).

C11/S24: Housing for power supply unit and back-up battery equipped with control LED, SC/18, 24V.

ACCESSORIES FOR ANALOGUE LOOP FOR FX SERIES CONTROL UNITS

SCI-3: Line isolator module supplied with high profile base.

SCI-4: Line isolator module which makes it possible to disable the part that is faulty from the rest of the detection loop. Mains powered from loop. Complete with BOX1.

NAM-AS2B: 1-input analogue addressable module, allows to connect any conventional detector featuring a NO contact output to a detection loop, power supply from loop, can be housed in BOX1 or BOX2 (optional). 4-Input NAM4-AS2B module available.

OCM-AS2B: Analogue addressable module equipped with 2 outputs: 1 open-collector output and 1 C/NC/NO relay output (2A @ 30V DC), connectable to detection loop, power supply from loop, can be housed in BOX1 or BOX2 (optional), 4-relay output OCM4-AS2B module available.

IOM4-AS2B: Analogue addressable module with 4 NO inputs for conventional detectors and 4 C/NO/NC relay outputs (0,6A @ 125Vac – 2A @ 30Vdc) to be connected to detection loop, power supply from loop, can be housed in BOX3.

MCM-AS3B: Control and supervision module which can be introduced onto detection loop. Input circuit for the connection of 20 ST-P detectors, out-put relay for alarm, input for power supply supervision. Mains supply requirements 24Vcc. Can be used with BOX1 and BOX2.

NAM-AS-G: Analogue addressable interface to connect a 4-20mA gas sensor to an analogue addressable detection loop. Sensor operating parameter can be monitored and operating levels can be set. Compatible sensors are CO detectors TS910EC-S and TS220EC-S, LPG TS293KG, TS292KG, methane detectors TS293KM and TS292KM. Unit supplied in BOX3, IP56, dimensions W159 x H119 x D75mm, 24Vdc power supply.

RGLOOP/CO: carbon monoxide (CO) revealing with interface 4-20mA and with an output for connection to analogue addressable control units, FX series, detection loop. 50 ppm pre-alarm threshold, 100 ppm alarm threshold. Power supply 12-24Vdc.

SCM-AS2B: Control module for sounder which can be introduced onto detection loop, output supervised for acoustic warning signals, input for power supply supervision. Mains supply requirements 24Vcc. Can be used with BOX1 and BOX2.

MTB: Analogue addressable module for local alarm, connectable to pull-cord switches, bathroom pull-cord alarms, room calls button.

RFP-AS2B: Optical-acoustic repeater for analogue addressable loop.

VCT-03NTAS: Sounder module for FX-series control panels analogue loop.

VCT-03CPR: Red- plastic cover for VCT-03NT and VCT-03NTAS sounder modules.

STB-PR: High-profile adapter, allows easy installation of smoke or temperature detectors where there are external pipes.

BOX1: IP55 housing for modules. Dimensions W128 x H80 x D51 mm.

BOX2: Housing for modules. Dimensions W47.5 x H10 x D30.5 mm.

BOX3: IP56 housing for modules. Dimensions W159 x H119 x D76mm.

SYSTEM FOR THE INSTALLATION OF NITTAN ANALOGUE SMOKE DETECTOR AERATION DUCTS

STA-D5: Kit for installation on ducts suitable for SENSORTEC series smoke detectors comprising flow indicator, sealed housing, anchoring screws and base for detector.

STA-VP-0.6: 600 mm Venturi tube.

STA-VP-1.5: 1,500 mm Venturi tube.

STA-MB1: Assembly options for STA-D5 kit for installation on round or insulated ducts.

STA-FI: Flow indicator spare.

ANALOGUE ADDRESSABLE BREAK GLASS CALL POINTS

ST-NCP-AS2: Analogue addressable glass-break fire alarm call point, film for protection against injuries, 2 status LED indicators, internal dip-switch to set addresses. Dimensions W 87 x H 87 x D 52mm, power 24V DC supplied by loop.

ST-NCP-E: Analogue addressed fire warning pushing button. Alarm warning turn on pushing the frontal plastic cover. Release key and Warning LED supplied. Low profile red plastic housing. Dimensions: W120 x H80 x D28mm.

ST-NCP-IP: Fire warning analogue addressed signalling button on external IP67 housing, breaking glass, plastic protection tape, test key and internal signalling state LED. Dimensions: W111 x H111 x D65mm.

EXTINGUISHING CONTROL UNIT

CF/SCS: Extinguishing control unit.

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