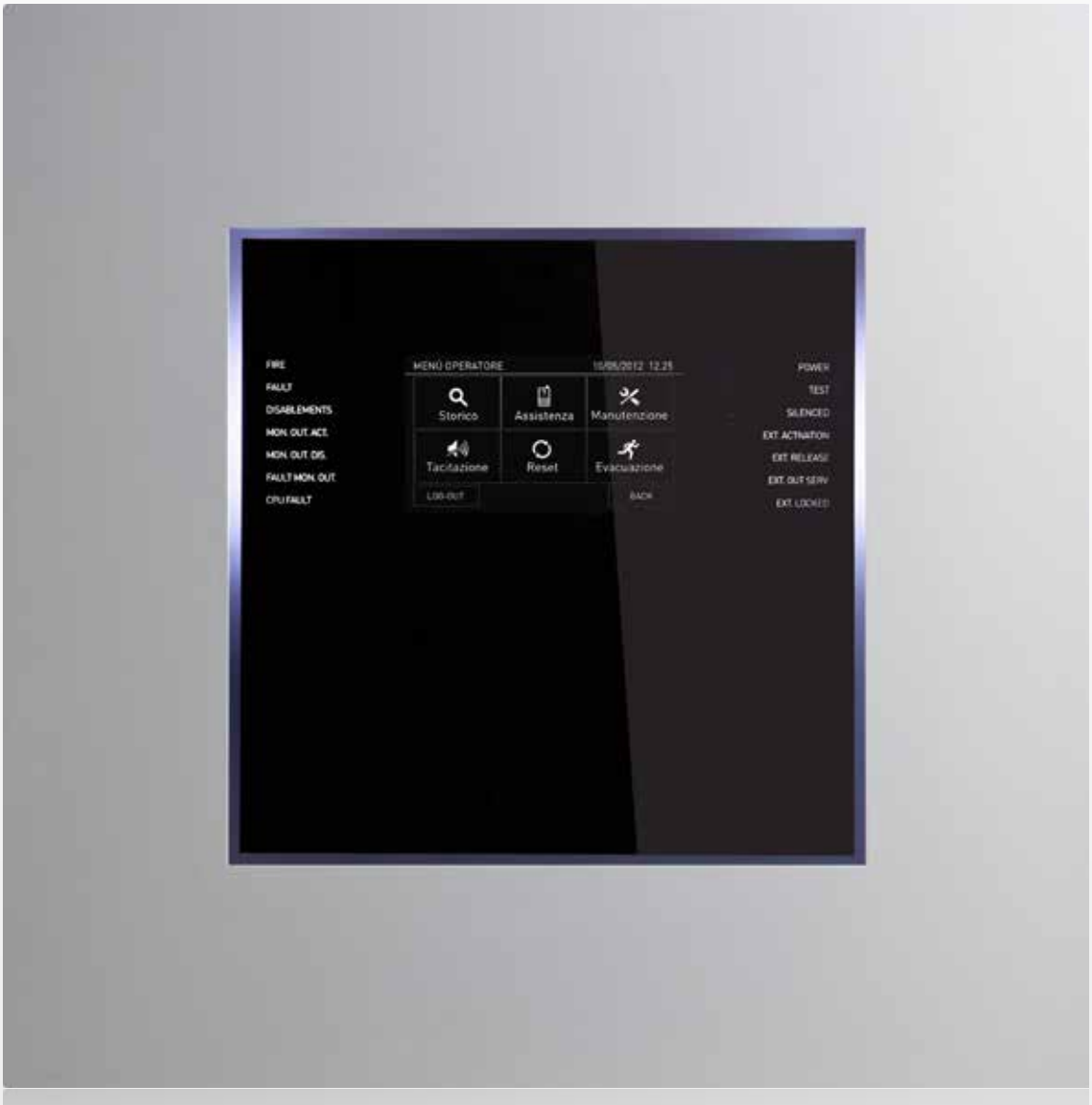
Teledata one

The Italian Touch !



The only One you need.

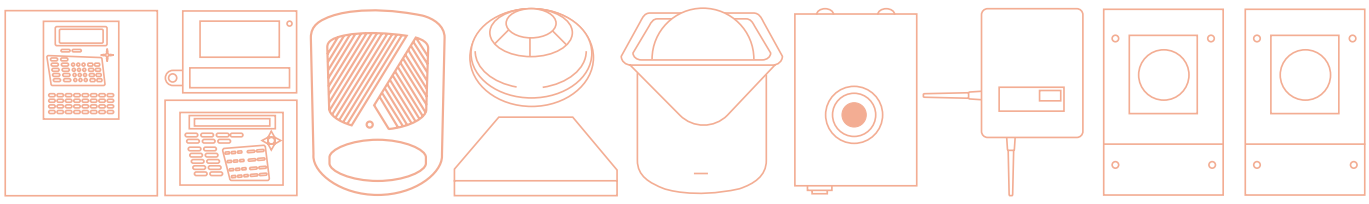
FIRE System

FIRE DETECTION Solution

The TELEDATA products for the fire detection are compliant to the legislations in force EN 54/2 54/4 related to the fire detection (EN 54-2) and the power supply (EN 54-4).
The TELEDATA fire detection panels are capable to manage up to 240 detectors for loop offering solutions from 1 loop (TELEDATA ONE) up to 16 loops (OLYMPIA).

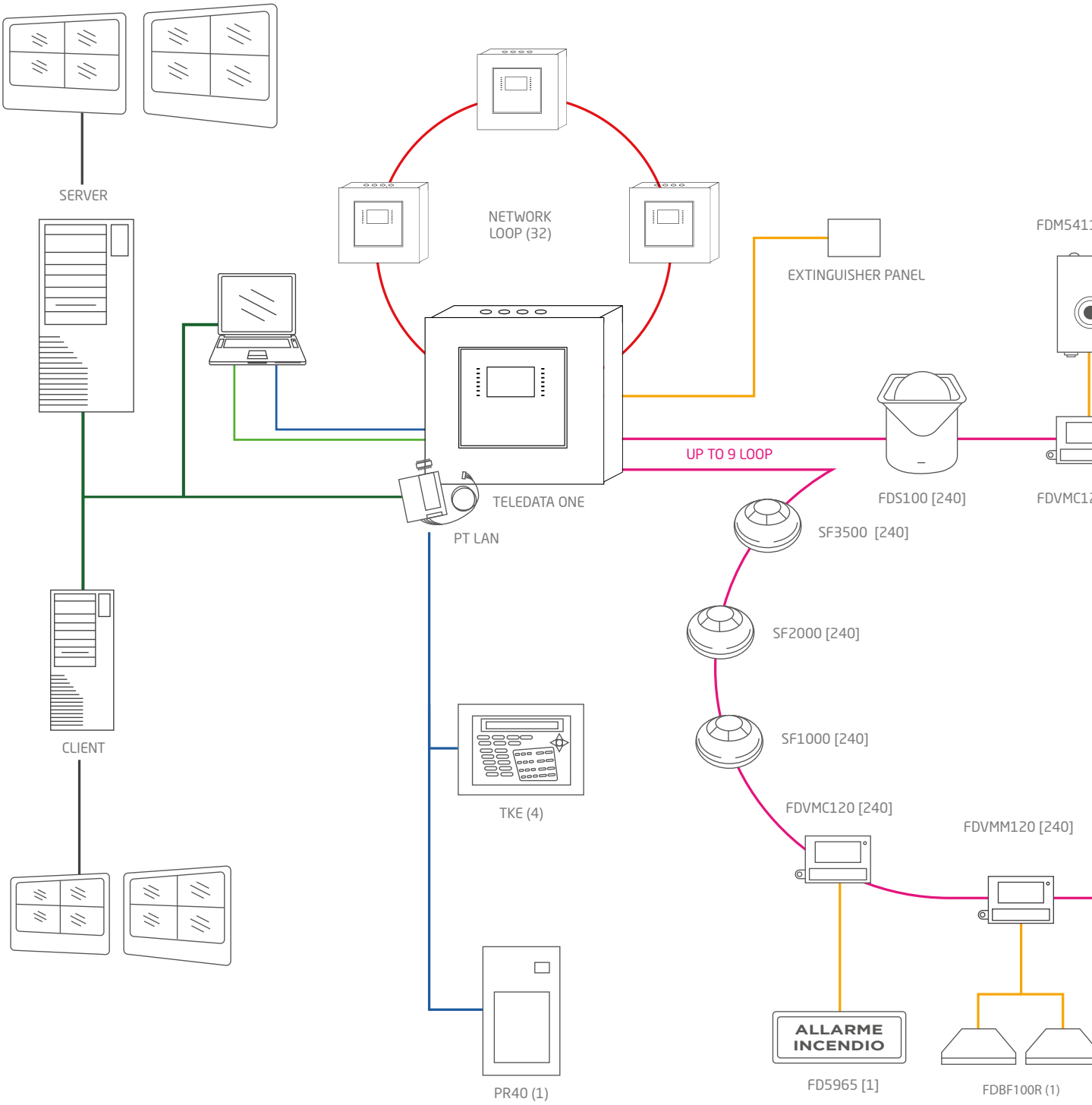
TELEDATA offers technical innovations such as
• The use of a digital comunication protocol on 2 voltage levels with the improvement of the quality and the reliability of the loop communication and the distance increment of the closed loop up to 6 Km.
Elegant design and available for all the different applications.
Available also in analog addressable version.

• The short cut detection integrated in the analog addressable modules and detectors, avoiding the use of external insulators.
The system management becomes easier by using the model ONE KBD remote keypads with push buttons, display and signaling LEDs.
The management of the control panel can be done by using any communication line or Ethernet network using the appropriate WINWATCH32 software.
The management of the fire control panels on graphic maps is integrated with the management of burglar, CCTV, access control and building automation systems.



INDEX

FIRE System



TCP\IP NETWORK
(CAT5 cable)

RS485 LINE
(Shielded, antiflame cable with 2 connectors for power supply and 2 connectors RS484 for signal)

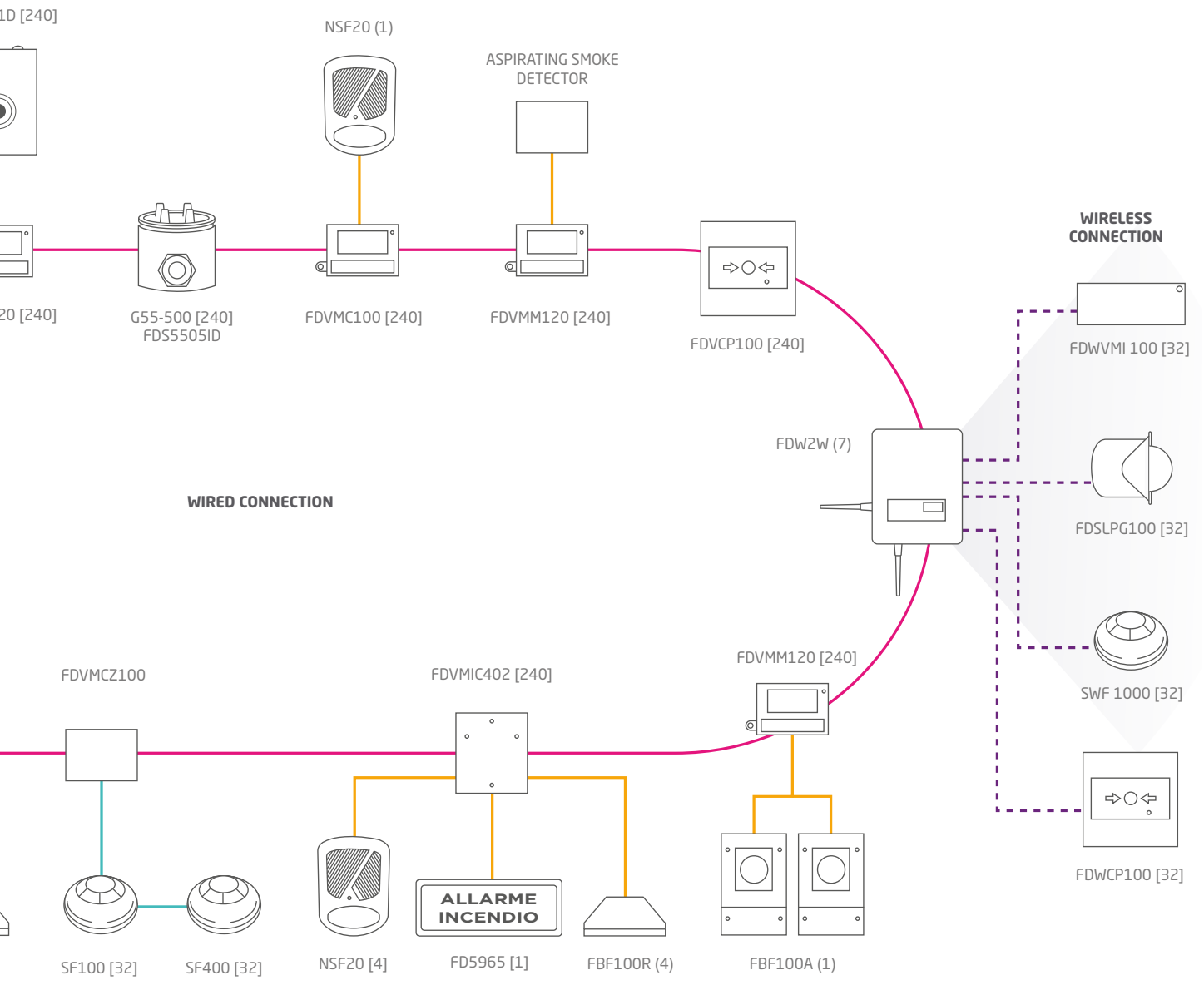
SIGNAL
(Shielded, antiflame cable with 2 connectors for signal and 2 connectors for power supply)

POWER SUPPLY AND SIGNAL
(Shielded, antiflame cable with 2 connectors for signal and power supply)

WIRELESS
(Radio connection with 870 MHZ Frequence)

NETWORK LOOP
(Cat 5 cable)

CLOSE
(Shield
for sign



RS232
(Cable with 9 connector for signal)

LOOP WITH POWER SUPPLY
ed, antiflame cable with 2 connectors
nal and power supply)

(x) = Maximum Number of connected device.
The devices can be added tougher ex: (x) + (x)

[x] = Maximum Number of connected device.
The device cannot be added tougher ex: (x) or (x)

Superior technology and ease of use

1. End User

For the first time in the fire industry, even the end-user can interact with a control panel! End-user can access to their own personal screen at any time, without a password, allowing them to see the events divided by: All , Alarms, Faults, Dates, Loop or by area. Or simply call assistance with a touch!

2. Log In

Once logged on the system, the end-user, maintenance technician or programmer will gain immediate access to his own user menu. Only the 4-6 keys specially designed for each user will appear on the touch screen! Everything is quick and easy: mistakes are virtually impossible! Finally a fire control panel that's easy-to-understand!

3. Operator Menu

Teledata one is a maintenance technician's dream. Traditional fire control panel force you to use conventional mini displays, often poorly back-lit, with endless menus, perhaps not even in your language, or require you to connect to a pc,

make this system truly UNIQUE!

4. Diagnostic Map

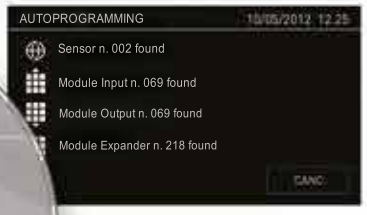
Teledata One displays the status of the system in a single glance, thanks to its diagnostic map which provides full information: immediately visualizing detectors, input\ouput modules and all wireless devices market with a “W”. The level of dust and consequent inefficiency of a detector is indicated with different colours.

5. Detailed Information

By touching the icon of the device, detailed information will appear about the exact percentage of dust, making it easier to plan periodic maintenance. Since dusty detectors are no longer able to detect any smoke, you always need a complete maintenance tool for the entire system at your fingertips.

6. Configuration Menu

Teledata One is also the dream of every installer: it is autoadressable, with no need for time-wasting dip-switches or conventional programming devices.



7. Autoprogramming

The control panel reads the entire field and automatically programs all the devices. Next, the diagnostic map displays everything that’s been programmed by the control panel. It’s so simple!

Complitely touch screen and the new fire alarm system

Unique Design.

Its name is One, since it offers all the information and instructions you need on a single touch screen!
A unique Italian design with programmable side led.

Touch Interface.

It's made to be touched: the first certified fire panel fully touch!
A totally touch screen panel with easy use interface.

expandable to 9 loops, is made in Italy"

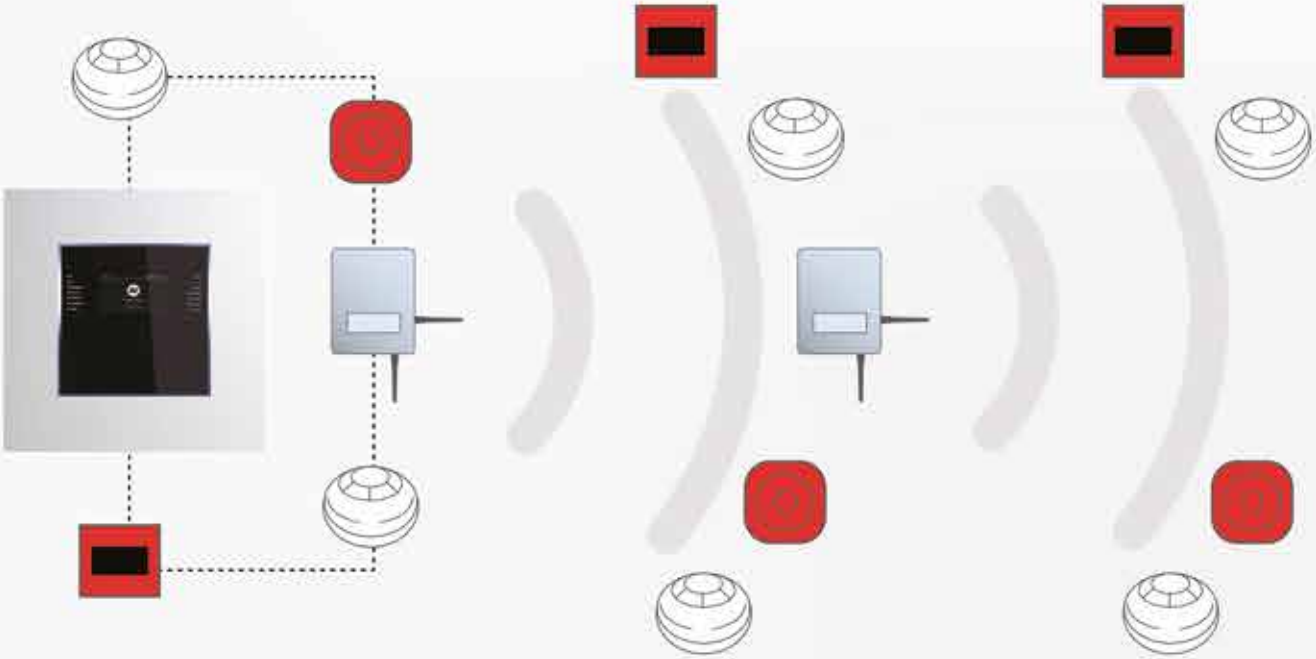
Custom.

Teledata One is available in:
White, black , or in custom painted shades colours
A refined object of refined italian design, which can also feature your trademark, since it is completely customizable, even with:
White or tri-color backlighting LED.
Fully customizable for OEM, certificate, logo and color.

All languages.

A superior quantity of characters and symbols. Up to 111 languages.

Safety &
All in one!..



Wireless.

Hybrid solution for wired and wireless devices.

When combined with the extensive range of compatible industry leading control equipment,Teledata offers the most flexible wireless fire solution available today.
Translator Modules are connected onto the control panel loop wiring, either on their own to form a fully wireless system, or mixed with wired field devices to from a Hybrid system. Each of these Translator Modules communicates with up to 128 field devices via a proven wireless protocol, processing the messages received from the field devices and transmitting information about themselves and the devices they support to the system's control equipment. All field devices have a wireless range of 150m in free air, but where greater distances are required the system is supported by a range of Expander and Router Modules which help to propagate the radio signals.
Multiple Translator Modules can be used on each control panel loop and each Translator Module can support multiple Expander Modules making it possible to configure systems of virtually any size and complexity.
Where a non-addressable system or a system.with an unsupported protocol is present, wireless detection devices can still be achieved in specific areas with the deployment of one Expander Module.

Simplicity
All for you!

Multi protocol.

Multi protocol devices
and detectors.

Auto addressing.

Auto adressing fuction
with logical mapping position.

Extinguish module.

Extinguish
module option.

Teledata one
The Italian Touch !

Expandibility.

Connect up to 128 panels on a network loop, to manage massive systems with more than 250,000 devices.

Redundancy.

The only fully redundant control panel made in Italy! All the individual components, from the CPU, to the power unit and other parts,can be redundant, to protect people's lives better, well beyond ordinary fire-prevention standards.

> TELEDATA ONE 1 loop expandable to 9 addressable fire alarm control panel

HARDWARE features

• 32 bit microprocessor addressable control panel
• 1 loop addressable with digital protocol configured as open or close.
• Expandable up to 9 loops
• 240 addressable devices each loop.
• Graphic touch screen display (480x272 TFT 4.3")
• Loop short circuit protection.
• 14 front LEDs
• 1 monitored output for siren or dialer (24Vdc 1A)
• general form C output 1A 30Vdc 120 Vac
• 1 general open collector output
• 1 RS 485 line for peripherals
• 1 RS 232/micro USB for programming or monitoring station
• Programmable colored side led
• 1 Ethernet 10 Mbit/s management card (OPTIONAL board PTLAN)
• 56 area led. (OPTIONAL board ONE 56)
• 1 Extinguishing channel (OPTIONAL board ONE EXT)
• 1 redundancy management card (OPTIONAL board ONE RDD)
• Management of networ between fire panels (OPTIONAL board ONE RING)
• Batteries capacity: 2 x 17Ah with EN54-4 charger management
• Monitored aux power supply output 24 Vdc 500mA with short protection
• Dimensions: 410x410x120 mm
• Power Supply: 230Vac

Software features

• Up to 240 addressable devices for loop
• Hybrid fire panel for wired or wireless detectors
• Up to 192 independent detection zones
• 192 logic functions
• Archival more than 1000 events
• Auto programming analog loops
• Auto addressing analog loops
• Devices Mapping .
• Connection with control panels using a fault tolerant network
• Multiple language management
• Fully customizable with personal logo, color , touch screen and multicolored side LEDs
• Management detectors and analog modules of different types:
- Thermal and optical detectors mixed
- Input Modules
- Output Modules
- Addressable call points
- Addressable sirens
• Multiprotocol
• Selectable colored LEDs
• Programmable locally or remotely via dedicated software on serial or LAN / WAN
• Multiprotocol Teledata Apollo and Wizmart
• MODBUS RTU Protocol (OPTIONAL board MCGTWMDB)
• Product certified to EN54-2 and EN54-4 standards

> ONE 2 Expansion card 2 loops for Teledata One

Functional features:
• The Teledata One Expansion board lets you expand Teledata One detection capacity in terms of number of loops, two at a time, to a maximum of 9 loops.

Technical specifications:
• 2-loop expansion board for Teledata One
• EN54-2 standard certified device
• Loops can be set as open or closed loops with consequent fault management
• Maximum number of devices per loop: 240
• Assembly inside the unit on specific connection on the master board
• Nr. 2 programmable monitored alarm output relays
• Multiprotocol Teledata Apollo and Wizmart

> ONE RING Network card for Olympia and Teledata One control panel

• CAN BUS connection
• Up to 32 control panels in the network
• Up to 50 Kbps data transmission.
• Fault tolerant connection, in case of fault it assures the necessary communication using a ring connection
• Compatible with Olympia fire panel and Teledata One
• Internal mounting in Olympia fire panel
• Up to 1,2Km cable length
• Consumption: 250mA max
• Power supply: 12Vdc from Olympia fire panel

> ONE KBD Remote keyboard touch screen to fire panel Teledata One

• Graphic display touchscreen (480x272 TFT 4.3“)
• 14 LEDs Front
• 2 RS 485 for connection
• 1 RS 232 / micro USB for programming
• Operating temperature: 5 ° C / + 40 ° C.
• Power supply: 24Vdc
• Power consumption: 100mA

> ONE 56 Card area led for TELEDATA ONE

• Card for the management of the zone alarm status
• n ° viewable zone: 56 area led.
• Operating temperature: 5 ° C / + 40 ° C.
• dimensions: 219x58mm

> ONE EXT 1 extinguishing channel board Teledata One *on request 2016

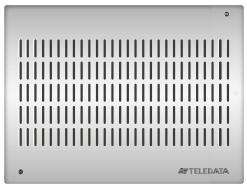
Functional features:
• The Teledata One Extinguishing board lets you equip the Teledata One fire detection unit with an output to manage an extinguisher channel (single system management).

Technical specifications:
• One channel extinguisher board for Teledata one unit
• EN 12094 standard certified device
• 2 monitored output relays for 1st stage and 2nd stage sirens
• 2 power free contact output relays for alarm and pre-alarm
• 1 power free contact output relay for removal
• 2 self-calibrating outputs for explosive capsules
• 1 end extinguishing open collector output
• 1 monitored manual extinguisher input button
• 1 release feedback monitored input
• 1 monitored input for system pressure gauge
• 2 general purpose monitored inputs

> ONE RDD Board for redundant performance implementation to increase Teledata One reliability *on request 2016

Technical and Functional Specifications:
• The Teledata redundancy board lets you equip the Teledata One fire detection unit with a "hot" back-up system in the event of fault that can involve some unit sections to increase the unit's level of reliability.
• The redundancy board keeps master, slave and serial board operations under constant control in the event of fault that generates a functional block, the redundancy board recognizes the fault and physically replaces the faulty section, inserting its electronic parts in the circuit.

The purpose of the board is to detect and provide backup for the following faults:
• Master board loop fault
• Master board microprocessor fault
• Slave board loop fault
• Slave board microprocessor fault
• Serial port faults



> MCGTWMDB Protocol converter for MODBUS protocol

HARDWARE features:
• Unit microprocessor controlled 133 MHz
• 32Mbytes Flash expandable to 64Mbytes
• 32Mbytes Ram expandable to 64Mbytes
• Embedded Operating System
• Network interface card Ethernet 10 100 Base T Integrated
• 1 RS232 serial line protocol for interfacing with central IEC 79/5 - 79/6
• Internal battery backup
• Power supply: 12Vdc
• Power consumption: 480 mA
• Operating Temperature: 0 ° -50 °
• Relative Humidity: 0% -95%
• Weight: 3,5Kg
• Dimensions: 208x152x65mm
FUNCTIONAL
• Protocol converter on MODBUS RTU over TCP / IP or Modbus TCP / IP by RS232 serial CEI 79/5 - 79/6
• Prepared for future expansion and customization according to specific projects.

> OLYMPIA 4 loop expandable up to 16 addressable fire alarm control panel

HARDWARE Features

- 16 bit microprocessor analog unit
- 4 digital protocol addressed analog loops, expandable up to 16 using OLY4 expansion cards
- 240 detectors/modules per loop.
- 40x8 character LCD display with back-light function
- Touch keypad with 25 function keys
- Loop short circuit protection.
- 20 front panel LEDs and 32 front panel area status LEDS
- 1 monitored sounder output (24Vdc 1A)
- 1 monitored output to trigger the fire alarm signal devices or the activation of the the extinguisher devices
- 1 monitored output dedicated for fire alarm communication system
- 1 fault relay output with clean contacts -1A 30Vdc 120 Vac
- 1 excluded sensors/modules/areas relay output with clean contacts -1A 30Vdc 120 Vac
- 1 technological relay output with clean contacts -1A 30Vdc 120 Vac
- 1 alarm relay output with clean contract output
- 1 RS 485 serial line for connection to remote panels and printer
- 1 RS 232C serial line for centralization, remote management and remote programming with CEI 79/5, 79/6 protocol)
- Programming data stored on non volatile EEPROM memories 2 26aH capacity accumulators with temperature controlled battery charger
- Warning signals for:
  - 230 Vac power supply absence
  - battery absence
  - Low & exhausted battery
  - Battery charger fault
- Auxiliary power output 24 Vdc 2.5 A monitored and protected against short circuits for external loads
- Management of additional conventional line via FDVMCZ100 module
- Power consumption when idle 600 mA at 12Vac
- Maximum absorption: 690 mA at 230 Vac
- Dimensions: 520x450x250 mm (AxLxP)
- Power supply: 230Vac/27Vdc 5.6A
- 1 monitored output to fire alarm system of comunication

Functional characteristics

- Division in up to 96 detection areas
- 96 logic functions
- Historically archive of the last 1024 events
- Automatic loop devices discovery
- Management of various types of detectors and analog modules:
  - Optical,Thermal and mixed detectors
  - Input modules
  - Output modules
  - Addressable call points
  - Addressable sirens
- Customised programming of phrases for each input
- 1 programming password
- 1 Maintenance password
- Technological functionality
- Local or remote programming using local Win SW via serial line or with LAN/WAN network
- Up to 32 panels networkable with Olynet
- Management of gas detection
- MODBUS RTU protocol with MCGTW

Reference Standards:

Product certified to EN54-2 and EN54-4 standards
CE Marking (EMC low voltage directive)
Certified n. 1293-CPD-0198

> TKE Remote keypad panel for EOLO and OLYMPIA fire control panel

- 40x2 character LCD display with back-light function
- 17 status LEDs
- 19 function buttons: Silence, Reset, Silence/rearm sounder alarm, Status, Arrow Up, Down, Left and Right buttons, ENTER key, Numerical keys from 0 to 9
- Remote management (max 4 keyboards) for Eolo and Olympia panels
- Can be connected to all addressable analog panels
- Mechanical key for use of the keyboard
- Metal case
- Wall or desk version available
- Dimensions: 230x120x45
- Power supply: 24Vdc
- Current absorption: 50mA max

> OLY 4 4 loop expansion card for Olympia control panel

- Mounted inside the control panel.
- 1 generic relay alarm output 1A 30Vdc 120 Vac
- 1 fault relay output 1A 30Vdc 120 Vac
- Configuration of 4 loops Closed or Open
- The maximum capacity for each loop is 240 detectors/modules, for a total of 3,840 devices for a 16 loop configuration. These applications are to assembled to EN-54 Standards, however it is necessary to keep in mind the mandatory limit of 512 devices per OLY4 (4 loop) card, for a total of 2,084 devices.

> ONE RING Network card for Olympia and Teledata One control panel

- CAN BUS connection
- Up to 32 control panels in the network
- Up to 50 Kbps data transmission.
- Fault tolerant connection, in case of fault it assures the necessary communication using a ring connection
- Compatible with Olympia fire panel
- Internal mounting in Olympia fire panel
- Up to 1,2Km cable length
- Consumption: 250mA max
- Power supply: 12Vdc from Olympia fire panel

> FDCANMONO Mono mode optical fibre converter with ST connector for Olynet card *on request

- Power supply: 12Vcc

> FDCANMULTI Multi mode optical fibre converter with ST connector for Olynet card *on request

- Power supply: 12Vcc

> EOLO 2 loop addressable fire alarm control panel

HARDWARE Features

- 16 bit microprocessor analog unit
- 2 digital protocol addressed analog loops with open or closed configuration
- 240 detectors/modules per loop.
- 40x2 character LCD display with back-light function
- Touch keypad with 25 function keys
- Loop short circuit protection.
- 17 frontpanel LEDS
- 1 monitored sounder output (24Vdc 1A)
- 1 monitored output to trigger the fire alarm signal devices or the activation of the extinguisher devices
- 1 fault relay output with clean contacts -1A 30Vdc 120 Vac
- 1 excluded sensors/modules/areas relay output with clean contacts -1A 30Vdc 120 Vac
- 1 technological relay output with clean contacts -1A 30Vdc 120 Vac
- 1 RS 485 serial line for connection to remote panels and printer
- 1 RS 232C serial line for centralization, remote management and remote programming with CEI 79/5, 79/6 protocol)
- 1 alarm relay output with clean contract output
- Programming data stored on non volatile EEPROM memories n. 2 17aH capacity accumulators with temperature controlled battery charger
- Warning signals for:
  - 230 Vac power supply absence
  - Battery absence and battery fault
  - Low & exhausted battery
  - Battery charger fault
- Auxiliary power output 24 Vdc 2.5 monitored and protected against short circuits for external loads
- Management of additional conventional line via FDVMCZ100 module
- Power consumption when idle 300 mA at 12Vdc
- Maximum absorption: 690 mA at 230 Vac
- Dimensions: 450x410x130 mm
- Power supply: 230Vac/27Vdc 5.6A

Functional characteristics

- Division in up to 32 detection areas
- 32 logic functions
- Historically archive of the last 385 events
- Automatic loop devices discovery
- Management of various types of detectors and analog modules:
  - Optical,Thermal and mixed detectors
  - Input modules
  - Output modules
  - Addressable call points
  - Addressable sirens
- Customised programming of phrases for each input
- 1 programming password
- 1 Maintenance password
- Technological functionality
- Local or remote programming using local Win SW via serial line or with LAN/WAN network
- Management of gas detection
- MODBUS RTU protocol with MCGTW

Reference Standards

Product certified to EN54-2 and EN54-4
Certified n. 1293-CPD-0154
standards CE Marking (EMC low voltage directive)

> TKE Remote keypad panel for EOLO and OLYMPIA fire control panel

- 40x2 character LCD display with back-light function
- 17 status LEDs
- 19 function buttons: Silence, Reset, Silence/rearm sounder alarm, Status, Arrow Up, Down, Left and Right buttons, ENTER key, Numerical keys from 0 to 9
- Remote management (max 4 keyboards) for Eolo and Olympia panels
- Can be connected to all addressable analog panels
- Mechanical key for use of the keyboard
- Metal case
- Wall or desk version available
- Dimensions: 230x120x45
- Power supply: 24Vdc

> PR40 40 column thermal printer for fire control panels

- Connection on RS 485 serial line
- Out-of-paper monitoring
- Metal case for wall-mounting
- Power supply 12Vdc
- Current absorption: 200mA (1500mA peak)

> PTLAN Ethernet interface for analog fire detection unit

- TTL serial interface powered by the panel and housed internally
- From 230 to 300 kbps
- Control signals: RTS, CTS, DTR, DCD
- Ethernet interface 10 Base T
- RJ45 Connector
- Operating temperature: -10C° + 50C°
- Dimensions: 45x90x28 m

> WIN LOCAL Programming sw for EOLO and OLYMPIA fire detection panels

Windows environment SW to program the Fire Detection panels and all other TELEDATA devices on RS232 serial lines or LAN and WAN geographical networks

> SF1000 Addressable optical smoke detector with digital communication protocol

- Low profile optical smoke detector to be fitted on the BS100 base
- Made from multi-coloured plastic material and has a modern design.
- Fitted with integrated insulation circuit.
- Automatic self-adaptation to the variations in environmental conditions
- 3 color LED
- Power supply 10-40V
- IP40 /IP42 with protection WP100
- Average power consumption 90 µA
- Maximum power consumption of remote LED 6mA
- Operating temperature - 30C° to + 70C°
- Max humidity 95% with no condensation
- Height: 54mm
- Diameter: 110mm
- Weight with the base: 130g
- Certified n. 0832 - CPD - 1066 and No: 928b-(cl-6)

> SF1000 E Addressable optical smoke detector with digital communication protocol

Same features of SF1000 but without isolator on board and with a single color red LED
- Certified n. 0832 - CPD - 1053 and No: 928e-(cl-6)

> SF2000 Addressable optical + Thermal Rate of Rise detector with digital communication protocol

- Combined optical smoke + rate of rise detector at 58°C
- Made from multi-coloured plastic material and has a modern design.
- Fitted with integrated insulation circuit
- Automatic self-adaptation to the variations in environmental conditions
- 3 color LED
- Power 10-40V
- optical and thermal section of the detector enabley/disable
- IP40/IP42with protection WP100
- Average power consumption 90 µA
- Maximum power consumption of remote LED 6mA
- Operating temperature: - 30C° to + 70C°
- Max humidity: 95% with no condensation
- Height: 54mm
- Diameter: 110mm
- Weight with the base: 130g
- Certified n. 0832 - CPD - 1067 and No: 928c-(cl-6)

> SF2000 E Addressable optical + Thermal Rate of Rise detector with digital communication protocol

Same features of SF2000 but without isolator on board and with a single color red LED
- Certified n. 0832 - CPD - 1054 and No: 928f-(cl-6)

> SF3500 Addressable programmable Thermal fixed and Rate of Rise detector with digital communication protocol

- It operates in thermal fixed mode with a temperature threshold of 78°C
- Made from multi-coloured plastic material and has a modern design.
- Fitted with integrated insulation circuit
- 3 color LED
- Programmable operatig temperature 58°C or 78°C
- Power: 10-40V
- IP40/IP42with protection WP100
- Average power: consumption 90 µA
- Maximum power: consumption of remote LED 6mA
- Operating temperature: - 30C° to + 70C°
- Max humidity: 95% with no condensation
- Height: 54mm
- Diameter: 110mm
- Weight with the base: 130g
- Certified n. 0832 - CPD - 1065 and No: 928a-(cl-6)

> SF3500 E Addressable programmable Thermal fixed and Rate of Rise detector with digital communication protocol

Same features of SF3500 but without isolator on board and with a single color red LED
- Certified n. 0832 - CPD - 1055 and No: 928d-(cl-6)

> BS100 Standard base

- Made from plastic material and has a modern design.
- Diameter: 110 mm
- Height: 42 mm
- Weight (without) the base: 99.4 g
- Operating temperature: - 10 ÷ + 60°C
- Relative operating humidity 10÷ 93% non condensing
- Local warning indicator (stand by and alarm) - Red LED
- ABS + PC (UL94-V0) plastic materials

> FDLVM100 Insulator module

Isolator module for use in conjunction with devices without a isolated sections, maximum every 31 points

- Maximum number of Vega Lite devices that can be “cut off” by the isolator module: 31 panels
- Loop’s voltage range: from 15 V to 40 V
- Standby current consumption: 90 µA at 24 V
- Operating temperature range: from -30 °C to + 70 °C
- Humidity from: 5 % to 85 %
- Dimensions 75 x 52 x 28 mm
- Weight 40 grams
- Applicable wire gauge range from 0.5 mm2 to 2.5 mm2

> FDWP100 Rubber protection for base BS100

Rubber protection to increase sensors IP grade protection to IP42

> SF XXX0 COLOR XX Detectors customized with different colours *on request

Coloured smoke detectors are also available customized to client specifications.
These solutions are specifically designed for installation projects where the final overall look is very important

MARBLE

WOOD

METAL

Addressable mini modules interfaceable with panel loop devices

> FDVMI100 Input mini module
- Certified n. KM518520

> FDVMC120 Output mini module
- Certified n. KM518520

> FDVMC100 Monitored output mini module
- Certified n. KM518520

> FDVMM120 Input and output mini module
- Certified n. KM518520

> FDVMM100 Monitored input and output mini module
- Certified n. KM518520

- Power 10-40V
- Average power consumption 120 µA
- Power consumption of LED 6mA (24V – line)
- Fitted with integrated insulation circuit
- Relay output 30Vdc 2A
- Operating temperature – 30°C to 70°C
- Max humidity 95% with no condensation
- Dimensions: 75x55x30mm
- Weight: 200g

Addressable wall modules interfaceable with panel loop devices

> FDVMIC100 Monitored input and output module
- Power 10-40V
- Average power consumption 120 µA
- Power consumption of LED 6mA (24V – line)
- Fitted with integrated insulation circuit
- Relay output 30Vdc 2A
- Operating temperature: – 30°C to 70°C
- Max humidity: 95% with no condensation
- Dimensions: 87x87x23 mm
- Weight: 200g

> FDVMIC404 4 input 4 output module
Same features of FDVMIC100 but with dimensions 130x130x35

> FDVMIC422 4 input 2 output 2 monitored output module *on request
Same features of FDVMIC100 but with dimensions 130x130x35

> FDVMIC602 6 input 2 output module
Same features of FDVMIC100 but with dimensions 210x170x65mm

Addressable DIN rail mount modules interfaceable with panel loop devices

> FDVMDI100 Input mini module *on request
> FDVMDC100 Monitored output mini module *on request
> FDVMDC120 Output mini module *on request
> FDVMDIC100 Monitored input and output mini module *on request
> FDVMDIC120 Input and output mini module *on request

- Power: 10-40V
- Average power consumption 120 µA
- Power consumption of LEDs 6mA (24V – line)
- Fitted with integrated insulation circuit
- Relay output: 30Vdc 2A
- Operating temperature: – 30°C to 70°C
- Max humidity: 95% with no condensation
- Dimensions: 79x90,5x25mm

> FDVCP100 Addressable resettable manual call point

- Red coloured ABS
- Fitted with integrated insulation circuit
- Accessories for flash-mounting fixture
- Power: 10-40V
- Average power consumption 70 µA
- Power consumption of LED 6mA (24V – line)
- Operating temperature: - 20C° + 65C°
- Max humidity: 95% with no condensation
- Dimensions: 87x87x23 mm
- Certified n. 0832 - CPD - 1514 e No: 928h-(cl-6)

> FDVCP67 Addressable resettable IP67 manual call point

- Low Consumption
- Short circuit isolator integrated
- Addressable
- Power supply: from 15 to 40 Vdc
- Current consumption: 6mA With blink led
- Operating temperature: -20/+705C°
- Protection rating: IP 67
- Dimensions: 119x128x62 mm
- Available in red, blue, green, yellow and withe colours

> FDS100 Addressable sounder

- 3 tone
- Red plastic casing
- Fitted with integrated insulation circuit
- Power: 15-30V
- Average power consumption 70 µA
- Power consumption of enabled siren 5mA (24V – line)
- Siren output 100dB
- Activation time on startup 2 sec
- Protection rating IP 42
- Operating temperature: – 25°C to 70°C
- Max humidity: 95% with no condensation
- Dimensions: 105x105x90 mm
- Weight: 200g
- Certified n. 0832 - CPD - 1515 e No: 928g-(cl-6)

> FDVWLS100 Addressable waterproof sounder

This acoustic output device is activated by a specific command sent from the analogue control panel.
The device has 3 tones programmable by the user.
Sounder volume can be set by the user.

- Power supply: 19-30 VDC
- Standby current consumption: 70 µA
- Alarm current consumption: 5 - 7 mA (at 24 V)
- Sound output volume selectable: 80-100 dB(A)
- Operating temperature range: -10 °C / +55 °C
- Humidity: 5 - 85% (no condensation)
- IP rating: IP 66

> FDVFI100 Addressable remote indicator for ceiling or under floor

- Loop voltage range: 18 - 40 Vdc
- Average standby current consumption: 50 uA at 24 Vdc
- Activated lamp current absorption: 5.4 mA at 24 Vdc
- Loop cable's wire gauge range: 0.5 - 2.5 mm2
- Operating temperature range: -30 - +70 °C
- Maximum tolerated humidity: 85% RH
- Protection rating: IP 42

> FDVMC Z100 Addressable module for conventional detectors *on request

- Fitted with integrated insulation circuit
- Absorption: 500 uA in Stand-By mode
- Power supply: 14-40V
- Average power consumption: 120 uA
- Operating temperature: -30°C+70°C
- Minimum voltage = 18V

> FDB100 Universal sounder for optical smoke detector

- Sounder for addressable smoke detector assembled under the detector
- Triggered when the detector alarm repeater LED comes on
- Acoustic pressure at 1 meter 94 dBa
- Consumption at 24Vdc 11mA
- Protection rating IP42
- 4 different tones
- Operating temperature - 20C° + 70C°
- Weight: 121g

> FDVBS100/32 32 tone siren for fire detectors

- Triggered when the detector alarm repeater LED comes on
- Voltage range: 15- 40 V
- Max current: 9.5 mA
- Max volume : 94 dBA
- 32 tone range: da 440 Hz a 2900 Hz
- Temp. range: -20 C° - 70C°
- Humidity range: da 5 a 95 % RH

> FDVBLS100/32 Addressable 32 tone siren for fire detectors

- Occupies a different address programmable independently
- Voltage range: 15- 40 V Typ 24 V
- Stand by current: 70 uA
- Max volume: 94 dBA
- 32 tone range: da 440 Hz a 2900 Hz
- Type of tone: programmable
- Temp range: -30 C° - 70C°
- Humidity range: da 5 a 95 % RH
- IP rating: 21C

> FDVBS100-AV/32 32 tone siren with flashing light for fire detectors

- Voltage range: 15- 40 V
- Max current: 12 mA
- Max volume : 94 dBA
- 32 tone range: da 440 Hz a 2900 Hz
- Type of tone: programmable
- Flash rate: 1Hz
- Temp. range: -20 C° - 70C°
- Humidity range: da 5 a 95 % RH

> FDVPU1000 Programming unit

This product permits to set and read various parameters stored in the analogue intelligent devices of the analogue-intelligent. The user can interact with the programming unit by using its in-built keypad and display; through this interface the user navigates through a menu-based set of options and commands, permitting him to program certain parameters on the devices or to read datafrom them.

The programming unit can be used, for example, to:
- read and set an analogue address on a device,
- read analog level and dirty level
- activate or deactivate input or output channels on a multi-module device,
- determine the firmware version of a device.

- Power supply battery: 6LR61 type, 9 V
- Operating temperature range: from -30°C to +70°C
- Maximum tolerated relative humidity: 95% RH (no condensation)
- Weight: 200 grams

> FDVLD100 Line driver

The Line Driver is a device which interfaces a personal computer to a fire loop which is composed of a wired system of analogue addressable fire security devices.

- Be used to test the loop devices installed
- External power supply range: 20 to 40 Vdc
- Loop power supply range: 18 to 38 VDC
- Suggested external power supply range: 24 to 29 VDC
- Suggested loop power supply range: 22 to 27 VDC
- Maximum supplied current by Line Driver to the loop: 500 mA
- Maximum supplied current by Line Driver to the loop(in limited current supply condition): 50 mA
- Connection type with the personal computer: RS232 or through USB <- RS232 adapter
- Operating temperature range: -30 °C / +70 °C(no condensation)
- Maximum tolerated humidity: 95% RH(no condensation)
- Recommended external power supply characteristics: 24 VDC - 1 A
- Minimum loop voltage to guarantee LED operation on most devices: 18 VDC
- Dimensions: 135 x 125 x 55 mm
- Weight: 370 g

> BOX500 Box for detectors for installation in shafts

- Adaptor for installation outside air shafts
- Detector alarm LED visible through the transparent surface
- Dimensions: 220x165x100 mm

> BOX1000 Professional smoke detector housing for duct installation

- Adaptor for duct installation
- Filter for dusty enviroment
- Suitable for conventional or Intelligent fire system
- Siutable with BOXTB06 (pipe 60 cm) and BOXBRK (mounting bracket for insulated or circular ducts)

> FDW2W Addressable wirelless transceiver and protocol conveter

- Wireless module and detector received for a maximum of 32 elements
- Powered by the panel loop, and able to address the different elements individually
- Bi-directional wireless communication with devices
- Up to 600 square mt coverage area
- Can be programmed to query the devices from every 12 sec to every 2 min.
- PC programmable device
- Wireless radiofrequency 868 -870 MHz
- Radiated Power from 0.01 to 7 mW
- Modulation type: FM
- Wireless query interval from 2 sec to 2 min
- Number of channels:7
- Operating temperature: - 10C° + 55C°
- Power supply by loop
- Certified n. 0832 - CPD - 1071

> FDWE100 Wireless expander module

- Up to 32 devices can be used with each expander
- Communication range in open space 600m
- Communication range withFDW2W translator: 1000 m
- Operating frequency: 868-870 Mhz
- The expander can be programmed through a PC.
- Operating frequency channel: 7
- Modulation type: FSK
- High noise immunity
- Power supply: 24Vdc
- consumption: 25mA
- Operating temperature: -30/+55C°

> SWF1000 Wireless optical smoke detector

- Certificato n. 0832 – CPD - 1069

> SWF2000 Wireless optical + thermal detector

- Certificato n. 0832 – CPD – 1070

> SWF3500 Wireless thermal sensor

- Certificato n. 0832 – CPD - 1068

- Bi-directional communication protocol
- Supplied with dual battery with low battery indication
- Primary battery: CR123A
- Secondary battery: CR2032A
- Made from multi-coloured plastic material with a modern design.
- Automatic self-adaptation to the variations in environmental conditions
- Tamper protection
- Certified EN 54-5 EN 54-7 EN 54-25 Standards

> FDWVMI100 Wireless input mini module

> FDWVMI120 Wireless form C output mini module

- Fitted with 2 two-colour LEDS
- Supplied with dual battery with low battery indication
- Primary battery: CR123A
- Secondary battery: CR2032A
- Relay output: 30Vdc 2A
- Tamper protection
- Operating temperature: -30C°+70°C
- Max humidity: 95% with no condensation
- Weight: 200g

> FDWMCB100 Wireless battery powered relay output module

- Supplied with dual battery with low battery indicator
- Main battery type: CR123A
- Secondary battery type : CR123A
- Main battery life time: 5 Years
- Secondary battery life time: 2 Years
- Operating frequency: 868-870Mhz
- Operating frequency channel: 7
- Modulation type: FSK
- High noise Immunity
- 1 relay output: 30Vdc, 2A, 60 W
- 12/24v output's max current supply: 40 mA/20mA

> FDWCP100 Wireless manual call point

- Alarm call point made from red coloured ABS
- Supplied with dual battery with low battery indication
- Primary battery: CR123A
- Secondary battery: CR2032A
- Tamper protection
- Operating temperature: - 20C° + 65C°
- Dimensions: 87x87x23 mm

> FDSGLSP100 Wireless wall sounder

This audiovisual output device is activated by a specific command sent from the analogue control panel.
The device has 3 tones programmable by the user.
Sounder volume can be set by the user.

- 3 tone sounder in red plastic casing
- Supplied with dual battery with low battery indication
- Primary battery: CR123A
- Secondary battery: CR2032A
- Siren output 100dB
- Activation time on startup 2 sec
- Protection rating IP 42
- Operating temperature: – 25°C to 70°C
- Max humidity: 95% with no condensation
- Dimensions: 105x105x90 mm
- Weight: 200g

> FDSGWRS100 Wireless waterproof wall sounder

- The wireless waterproof wall sounder is an acoustic output device which is activated by a specific command sent from the control panel.

Same specifications of FDSGLSP100 but with:
- Ingress protection rating: IP 66

> FDSGFI100 Wireless remote indicator

- Remote indicator must be used with sensor in the ceiling or under floor.
- Operating frequency range: 868.15 MHz - 869.85 MHz
- Max radiated power: 5 dBm (3 mW)
- Radio signal's modulation type: FSK
- Operating frequency channels: 7
- Communication range with the translator or the expander: 200 m (in open space)
- Main battery type: CR123A (3 V & 1.2 Ah)
- Secondary battery type: CR123A (3 V & 1.2 Ah)
- Main battery life time: 5 years
- Secondary battery life time: 2 months
- Operating temperature: from 0 to +55 °C
- Max tolerated humidity (no condensing): 95% RH
- Dimensions : 87 mm x 87 mm x 68 mm
- Weight (without batteries:) 180 g

> FDSGRBS100 Wireless sounde base

- The wireless sounder base is a device that activates its output when ordered so by the control panel in the event of fire alarms. Wireless sounder base is designed to act as a supporting mean for the - installation of wireless detectors.
- Operating frequency range: 868 MHz
- Radiated power: 5 dBm (3 mW)
- Usable operating frequency channels:7
- Radio signal's modulation type: FSK
- Communication range with wire to wireless device or wireless expander device: 200 m in open space
- Main battery type: CR123A (3 V & 1.2 Ah)
- Secondary battery type: CR123A (3 V & 1.2 Ah)
- Main battery life time 5 years
- Secondary battery life time 2 months
- Operating temperature range: from –10 °C to +55 °C
- Maximum tolerated humidity - with no condensing: 95 % RH
- Maximum volume range at 1m –selectable: from 89 dBa to 91 dBa
- Device output tone's frequency range: 440 Hz to 2900 Hz
- Ingress protection rating: IP 21C
- Device's dimensions: 120 mm x 52 mm
- Device's weight: 150 g

> FDSGRBS100-AV Wireless sounde base with beacon

- The wireless audiovisual sounder base is a device that activates its output when ordered so by the control panel in the event of fire alarms. Wireless sounder base is designed to act as a supporting0 mean for the installation of wireless detectors.
- Operating frequency range: 868.15 MHz - 869.85 MHz
- Radiated power: 5 dBm (3 mW)
- Usable operating frequency channels: 7
- Radio signal's modulation type: FSK
- Communication range with wire to wireless device or wireless expander device: 200 m in open space
- Main battery type: CR123A (3 V & 1.2 Ah)
- Secondary battery type: CR123A (3 V & 1.2 Ah)
- Main battery life time: 5 years
- Secondary battery life time: 2 months
- Operating temperature range: from –10 °C to +55 °C
- Maximum tolerated humidity - with no condensing: 95 % RH
- Maximum volume range at 1m: selectable from 90.1 dBa to 92.4 dBa
- Device output tone's frequency range: 440 Hz to 2900 Hz
- Device's dimensions: 145 mm x x 66 mm
- Device's weight: 260 g

> FDWTESTER Wireless survey kit **on request*

- The purpose of the Wireless Survey Kit is to determine the quality of the radio signal coming directly form a FDW2W wire to wireless translator or relayed through a FDWE100 wireless expander in a specific spot in the installation site where a wireless device is going to be installed.

The FDWTESTER is composed of the following elements:
- A carrying case
- A pair of carrying case's keys
- A test device
- A test device's adaptor base
- A battery for the test device: CR123A (3 V & 1.2 Ah)
- A radio interface module
- A power supply transformer unit for the radio interface
- A wireless keypad
- An ER9V battery for the wireless keypad (9 V & 1.2 Ah)
- A programming lead for wireless keypad and radio interface connection
- A compact disk containing the wireless system configuration program (Wirelex) for the PC

Integrated monitoring software

Multi-function monitoring software

- Integrated monitoring system to control devices:
  - Fire Detection
  - CCTV
  - Burglar alarm
  - Access control
  - BAS Building automation system
- LAN and WAN line management
- Telephone lines: PSTN GSM ISDN
- Dedicated line: RS 232 RS 485 point to point
- Multiprotocol management
- Multimonitor mangement on each work station with graphic maps and user friendly interface
- Client server system architecture
- Complete control of every single device including remote programming and remote firmware updating
- Hierarchical system scalable by user category
- Advanced event storage and search functions
- Customizable to suit all customer requirements
- Operating environment: Windows

Winwatch versions available

> **Win Terminal** max 2 devices
> **Win Super** max 6 devices
> **Win Max** max 12 devices
> **Winwach Enterpise** Management of an unlimited number of peripherals

Optional modules for integration

> **Win client** Management module for 1 additional client work station
> **Win Mappe** Interactive image-maps management module
> **Win back up** Module for back up management of the devices connected to GSM data lines

> MICRA4P Conventional fire alarm control panels 4 zones

- Conventional fire alarm control panel 4 fully monitored fire zones with up to 32 automatic detectors each zone
- Unlimited number of call points
- 2 monitored siren outputs
- Ressetable fuses
- 1 "fire" and 1 "fault" relay output
- One man test
- Class change input
- EN54-2/4 Certification
- Manual trigger of the fire alarm
- Abundant LED indications
- Security key for switching over between access levels 1 and 2
- Independent Enable/Disable of each zone and sounders
- ABS plastic box
- Consumption – 50 mA 230Vac
- Operating temperature -5C° +40C°
- 1 battery 12 V / 7 Ah (not included) for stand-by supply
- Certified n. 1293 - CPD - 0228
- Dimension 320x290x100 mm

> MICRA8PLUS Conventional fire alarm control panels 8 loop expandable up to 16

- Conventional fire alarm control panel, 8 fully monitored fire zones, expandable up to 16 zones with up to 32 automatic detectors each zone
- Unlimited number of call points
- 4 monitored siren outputs (possible expanding up to 12 siren outputs)
- 1 "fire" and 1 "fault" relay output
- Resettable fuses
- One man test
- Repeater interface
- Certificated by EN54-2/4
- Power main - 230V AC 310% 2 fuses, Type T
- Operating temperature -5C° +40C°
- 1 battery 12 V/18 Ah (not included) for stand-by supply
- Dimensions 441x331x80
- Certified n. 1293 - CPD - 0229

> FDEXP 4 zones expander module for MICRA8PLUS fire alarm panel

> FDW2WC Wireless conventional module permits *on request

Wireless conventional module permits to add a wireless sub-system to a conventional fire security installation.

- Power supply voltage range: 9-30V
- Current consumption: 50 mA NORMAL condition at 12 V
- Current consumption: 40 mA FAULT condition at 12 V
- Current consumption: 60 mA ALARM condition at 12 V
- Current consumption: 26 mA NORMAL condition at 24 V
- Current consumption: 21 mA FAULT condition at 24 V
- Current consumption: 31 mA ALARM condition at 24 V
- Communication range between FDW2WC and wireless devices: 200 mt. open space
- Operating frequency range: 868 - 870 MHz
- Radiated power range: 5 dBm equals to 3 mW
- Radio signal's modulation type: FSK
- Dimensions: 190 mm x 230 mm x 50 mm With antennas
- Dimensions: 120 mm x 160 mm x 50 mm Without antennas
- Weight: 330 grams

> SF100 Conventional optical smoke detector

- Certified n. 0832 - CPD - 1417

> SF200 Conventional optical smoke + thermal detector

> SF400 Conventional themral detector

- Certified n. 0832 - CPD - 1418
- Low profile for installation on the standard analog base BSE100
- Made from plastic material with a modern design
- Diameter 100 mm
- Height 42 mm
- Weight (without) the base 99.4 g
- Operating temperature (-30 ÷ + 70)°C
- Relative operating humidity (95%) non condensing
- Remote control LED 6mA
- ABS + PC (UL94-V0) plastic materials
- Parts 5 and 7 certified to EN54 Standard
- Consumption in stand-by mode 75 QA
- Maximum power consumption 50mA
  (in the case of an alarm it is limited by the resistor in the base or the unit)
- Diameter: 110mm
- Height: 54mm
- Weight: 130g

> BSE100 Standard conventional base

- Made from plastic material with a modern design
- Fitted with resistor resistors for MICRA4P / MICRA8PLUS panels
- Relay base onboard BSE 100 R model also available
- Diameter: 110 mm
- Height: 42 mm
- Weight: (without) the base 99.4 g
- Operating temperature: (-10 Ð + 60)°C
- Relative operating humidity: (10 Ð 93)% non condensing
- Local warning indicator (stand by and alarm) - Red LED
- ABS + PC (UL94-V0) plastic materials

> BRL100 Relay base for conventional detectors: SF100 - SF200 - SF400

> FD4930 Resettable and glass break emergency call point

- Protection Rating Ip 54
- Testing function with included resetting key
- Certified EN54 Standard
- EN54-11:2001+A1:2005

> FD4991 Fire call point IP66

- Housing: Thermoplastic, red
- Connection Type: with terminal
- Operating temperature: -25 ° C to +70 ° C
- Standard equipment: key to recovery, test and opening
- Contact: 1 form C 3 A 9 to 30 Vdc
- IP protection: IP66
- Weight: 0.32 Kg

> FD 5956 Certified optical acoustic display EN54-3

- Housing material: Base and cover in ABS
- Operating temperature: -10 ° C to +50 ° C
- IP protection: IP21C
- Acoustic characteristics
- Sound pressure: 87 dB (A) @ 1m
- Pulsing frequency: 3050 Hz
- Operating Voltage: 10.8 VDC to 28 VDC
- Absorption: 100mA a 24 Vcc
- Lamp: high brightness LED
- Weight: 450 g
- CPD certified according to UNI EN54-3:2001+A1:2002+A2:2006

> FD 5965 Certified optical acoustic display EN54-3 e EN54-23

- Housing material: self-extinguishing thermoplastic
- Connection Type: with terminal
- Operating temperature: -10 ° C to +50 ° C
- IP protection: IP54
- Acoustic characteristics
- Sound pressure: 88 dB (A) @ 1m
- Pulsing frequency: 2160 Hz 3 30 Hz
- Operating Voltage: 10.8 VDC to 28 VDC
- Consumption: 200 mA @ 12V 100mA @ 24V
- Lamp: high brightness LED
- Flashing frequency: Steady or 60/min
- Weight: 0.9 kg
- CPD certified according to UNI EN54-3:2000+A1:2002+A2:2006 and EN54-23:2010

> FD FI100 Optical led repeater for individual or group of detector alarms

- The repeater is connected directly to the detector repeater LED connection
- Wall or ceiling installation, Made from thermoplastic material
- Current consumption: 4.5 mA
- Operating temperature: - 30C° to + 70C°
- Protection rating: IP 40
- Dimensions: 80x80x27

Linear smoke beams detector

> FDBF100A Active infrared beam - With range of 100 meters

- Consists of a transmitter unit and receiver unit
- The FDBR100 model is available which allows the connection of 4 FDBF100a barriers and remote signal control
- Capacity: from 5 to 100 m.
- Operating range: 1,500m2
- Alarm output triggered at 4 different levels
- Fault output
- Power supply: 12/24Vdc
- Operating temperature: 5C°- 40C°
- Dimensions: 96x159x211
- Weight: 1,500 gr
- Certification CPD

> FDBFTEST Testing instrument for FDFB100A/R linear smoke detector

> FDBF100R Reflection smoke detection beam *on request

- Consist of a transmitter unit and reflector
- FDBR100 module is available to allows the connection of n°4 FDBF100R and remote signal
- Range: max 70 meters with reflective panel included (100m with optional kit BSF)
- Coverage: 1.000mq
- Alarm output activated on 4 different levels
- Fault output
- Power supply:12/24Vdc
- Operating temperature: 5C°-40C°
- Dimension: 96x159x211
- Weight: 780 gr.
- Certification CPD

> FDBFTEST Testing instrument for FDFB100A/R linear smoke detector

Anti flodding

> FD 1450 Flood and humidity protection detector in thermoplastic material

- The presence of water is detected by 4 gold coloured supports. The alarm is triggered by a relay. Article FD1450S is available and connects to FD 1450 that acts as the sensor.
- It is possible to connect up to 10 FD 1450S in parallel
- Protection rating: IP 40
- Operating temperature: 5C°- 40C°
- Operating voltage: 12/24Vdc Max
- Consumption: 30mA 24Vdc

*on request

> FD 2450 Flood protection detector ip 67

- Sensor that detects the presence of water using 2 golden coloured supports.
- The alarm is triggered by a relay
- It is able to detect the presence of liquid at a height of from 0 to 11 mm
- Supplied with a 4m cable
- Protection rating IP 67
- 7 connection wires with 4m cable
- Operating temperature: - 15C° + 70C°
- Operating voltage: 12/24Vdc
- Max consumption: 49 mA 24Vdc consumption when idle 21 mA 24Vdc
- Weight: 0.89 Kg

> FDMICRANANO Aspirating smoke detecto up to 50 mt with 3d laser technology

Technical specifications:
- Single pipe exhaust smoke detector up to 50mt capacity (25mt with moving air)
- EN54 20 certified Class A (for 2 vents), Class B (for 4 vents) and Class C (for 10 vents)
- Operating range from 0.03% to 25% Obs/m
- Particle sensitivity range from 0.003Q to 10Q
- Pre-alarm, alarm 1 and alarm 2 LED signals
- Nr. 3 relays (pre-alarm, alarm and fault)
- RS232/485 interface for PC and Network bus connections
- 1 input pipe and 1 output pipe for sampled air
- IP50 grade
- Power voltage 21.6 - 26.4Vdc 350mA
- Dimensions 190 x 230 x 110
- Weight 1.2Kg
- Temperature -10C ° +60C°

> FDMICRA25 Aspirating smoke detecto up to 50 mt with 3d laser technology

Technical specifications:
- Single pipe exhaust smoke detector up to 50mt capacity (25mt with moving air)
- EN54 20 certified Class A, Class B and Class C (for 10 sampling vents)
- Operating range from 0.03% to 25% Obs/m
- Particle sensitivity range from 0.003Q to 10Q
- Pre-alarm, alarm 1 and alarm 2 LED signals
- No. 2 relays (fault and alarm)
- RS232/485 interface for PC and Network bus connections
- 1 input pipe and 1 output pipe for sampled air
- IP50 grade
- Power voltage 21.6 - 26.4Vdc 250mA
- Dimensions 140 x 200 x 85
- Weight 1.7Kg
- Temperature -10C ° +60C°

> FDMICRA100 Aspirating smoke detector up to 100 mt with 3d laser technology

Technical specifications:
- 2-pipe exhaust smoke detector
- Single pipe up to 100 mt capacity (50mt with moving air)
- EN54 20 certified Class A, Class B and Class C (for 20 sampling vents)
- Operating range from 0.03% to 25% Obs/m
- Particle sensitivity range from 0.003Q to 10Q
- Pre-alarm, alarm 1 and alarm 2 LED signals
- No. 2 relays (fault and alarm)
- RS232/485 interface for PC and Network bus connections
- 2 input pipes and 1 output pipe for sampled air
- IP50 grade
- Power voltage 21.6 - 26.4Vdc 400mA
- Dimensions 300 x 220 x 85
- Weight 3.8Kg
- Temperature -10C ° +60C°

> FDHSSD Aspirating smoke detector up to 250 mt with 3d laser technology

Technical specifications:

- 4-pipe exhaust smoke detector up to 250mt capacity (MAX. 100mt per single pipe)
- EN54 20 certified Class A (20 vents), Class B (40 vents) and Class C (for 100 sampling vents max. length 200mt)
- Operating range from 0.03% to 25% Obs/m
- Particle sensitivity range from 0.003Q to 10Q
- Nr. 5 relays to signal pre-alarm, alarm 1, alarm 2, fault and auxiliary signal.
- Nr. 3 programmable inputs
- RS232/485 interface for PC and Network bus connections
- 4 input pipes and 1 output pipe for sampled air
- IP50 grade
- Power voltage 21.6 - 26.4Vdc 450mA average fan speed (1400 mA max. fan speed)
- Dimensions 427 x 372 x 115
- Weight 5.2Kg
- Temperature -10C ° +60C°

> FD30436 Input - output board for aspirating detector

Board with 5 additional outputs and 3 additional inputs to house in the unit

> FD10900 Sampling pipe

Red ABS pipe for aspirating detector, 3mt long, 27 mm section

> FD10905 Red ABS 45°curve for sampling pipe

> FD10906 Red ABS 90°curve for sampling pipe

> FD10908 ABS joint sleeve forFD10900 pipe

> FD10909 T joint for ABS FD10900 pipe

> **FD10927** Pipe plug

> **FD10915** ABS opening joint sleeve for FD10900 pipe to facilitate maintenance

> **FD21888K074** Sampling point made up of flexible hose with aspirating point

> **FD21888K076** Flexible connector to overcome obstacles length 1 mt

> **FD10950** Glue for device connection

> **FD10954** Fastening clip for FD10900 pipe

> **FD21888K078** Flexible pipe diameter 10mm in 100mt reel to create sampling points according to specific needs

> **FD30755** FDmicra25 and FDmicra100 aspirating sensor filters - 6-filter pack

> **FD30699** FDHSSD aspirating sensor filters - 6-filter pack

> G55 500 Gas detector

- The reading, expressed in L.E.L, is set by default asfollows:
  - Standard setting for L.E.L.: 15% pre-alarm and 30% alarm
  - Standard setting for P.P.M: 100 pre-alarm and 200 alarm
  - Standard setting for oxygen: 18% pre-alarm and 15% alarm (insufficient)
  - Standard setting for oxygen: 24% pre-alarm and 27% alarm (excessive)
- Case: IP 55;
- Type of Gas detected
- Power supply 12/24 Vdc
- Current consumption when idle 55 mA at 12Vdc and 28 mA at 24 Vdc
- Current consumption in pre-alarm 68 mA at 12Vdc and 35 mA at 24 Vdc
- Current consumption in alarm 80 mA at 12Vdc and 45 mA at 24 Vdc
- Sensitive element: Semi-conductor
- Operating temperature from 0C° to + 40C°
- Relative humidity 90%
- Max air speed 10 m/sec
- Container: dust-proof metal ADFT
- Weight: 370 g
- Dimensions: 141x100x6 mm HxLxP

Available in the following versions:	**G55 line IP 55**	**ADPE and ATEX line**
Methane	Mod. G55 500	Mod. E55 500
Special gases	Mod. G55 501	Mod. E55 501
Petrol fumes	Mod. G55 502	Mod. E55 502
Carbon monoxide	Mod. G55 503	Mod. E55 503
Hydrogen gases	Mod. G55 504	Mod. E55 504
GPL	Mod. G55 505	Mod. E55 505
Propane	Mod. G55 506	Mod. E55 506
Ammonia 100/200 ppm in container	Mod. G55 507	Mod. E55 507
Ammonia 1000/2000 ppm in container	Mod. G55 508	Mod. E55 508
Acethylene gas	Mod. G55 509	Mod. E55 509
Oxygen – excessive	Mod. G55 510	Mod. E55 510
Oxygen – insufficient	Mod. G55 511	Mod. E55 511

Accessories for gas detectors

> FD55501 Portable console for setting gas detector 500 series

> FD55503 3 relays output module for gas detector 500 series

> FD55105 Beaker for G series gas detectors

> FD55106 Beaker for E series gas detectors

> FDB550XX Test cylinder for GAS detectors

> FD 55505AD Adaptor for gas detectors

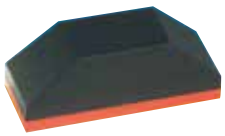
Allows feedback of alarm, pre-alarm and fault events to be sent to the input module on the addressed fire detection unit. Adaptor to be fitted inside the gas detector and connected to the single input module so fault, alarm and pre-alarm feedback can be sent. Powered by the gas detector.

**on request*

> FD55505ID Analog interface with Teledata digital communication protocol

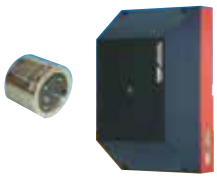
To be connected to the digital alarm loop to manage alarm, pre-alarm and fault event feedback.
It is possible to identify the address from the unit via the simple automatic loop device discovery.
Powered by the gas detector.

> FD FL10 Infrared radiation flame detectors *on request



- Small sized, ideal for installation on walls and ceilings
- Power supply: 12 Vcc (FL10/12) or 24 Vcc (FL10/24)
- Current consumption: 15 mA
- Maximum distance of flame detection: 20 m (flame target 20x20 cm - height 20 cm)
- Optical viewing angle: 120 degrees
- Sensitivity regulation
- Intervention delay regulation
- Terminals for remote operating tests
- Relay output: 1A/24 Vcc
- Casing in self-extinguishing polycarbonate – Class V0
- Protection rating: IP 34
- Dimensions: 162x62x63 mm
- Weight: 240 gr

> FD FL20 Infrared radiation flame detector with two sensors IP65 *on request



- 2 sensors with different viewing spectrum ideal for industrial application
- For wall or ceiling installation, wide viewing angle
- Casing: self-extinguishing polycarbonate - IP65
- Power supply: 12/24 Vcc
- Consumption: 18 mA
- Maximum distance of flame detection: 20 m (flame target 20x20 cm - height 20 cm)
- Optical viewing angle: 120 degrees
- Sensitivity regulation:
- Intervention delay regulation:
- Terminals for remote operating tests
- Relay output: 1A/24 Vcc
- Casing in self-extinguishing polycarbonate material – Class V0
- Protection rating: IP 65
- Dimensions: 247x146x114 mm
- Weight: 900 gr.

Spark detector

> FD EV 395 Spark detector IP 65 *on request

The FD EV395 spark detector is an electronic device used to detect sparks in tubes or pipes conveying various types of combustible materials towards a storage silos.
- Power supply: 24 Vcc and ca
- Solid optical viewing angle: 90 degrees
- Regulating sensitivity
- Remote operating tests
- Protection rating: IP67
- Dimensions: 140x135x85

> FD SCL 01 Spark detector IP 65 ATEX version *on request

The FD SCL-01 spark detector is an electronic device used to detect sparks in tubes or pipes conveying various types of combustible materials towards a storage silos.
- The device is explosion proof EX-d IIC-T6 – ATEX certified.
- Power supply: 12/24 Vcc and ca
- Electronic with microprocessor
- Solid optical viewing angle: 90 degrees
- Regulating sensitivity
- Protection rating: explosion proof EX-d IIC T6
- Certifications: CESI and ATEX
- Protection rating: IP66
- Dimensions: 200x130 mm

> FD EV-521 Control unit for 2 spark detectors *on request

The spark detector control unit is used with the relative detectors. It can control 1 or 2 nozzle solenoid valves to spray water to extinguish flames. It can control relative acoustic alarms. Automatic activation of shutters to block the flow. It checks the opening of the shutters using pressure switches on the hydraulic circuit.
- Timers: 2 adjustable
- Remote Test buttons for 2 spark detectors
- Relay output: 4
- Container: in shockproof plastic material with transparent flap
- Protection rating: IP 54
- Dimensions: 275x325x110 mm

Sirens and bells

> FD5206 Fire alarm bell for indoor use

- Steel Cover
- High performance motor
- Low consumption
- 4, 6 inch versions
- Power 24Vdc/12Vdc
- Protection rating IP42
- Operative temperature -10 +50 C°
- Acoustic pressure at 1mt 80db
- Current consumption 18mA 4"; 25mA 6"
- UNI EN54-3:2000+A1:2002

> FD5060 Electronic fire alarm bell for outdoor use

- 6 inch steel cover
- Low consumption
- Protection rating IP 55
- Power supply 12/24Vdc
- Operative temperature -10 +50 C°
- Consumption 55mA at 12Vdc ; 25mA at 24Vdc
- UNI EN54-3:2000+A1:2002

> SF105 Indoor fire siren with red flash

- Volume: 105 dB
- Speaker piezo
- Base frequency: 2.9 – 4.0 kHz
- Modulating frequency: 3.2 Hz
- Box plastic
- Consumption: 80 mA

> FD5405 32 tone selectable electronic sounder

- Volume control
- Available IP 54
- Allowable voltage 9 - 28 Vcc
- Acoustic pressure At 1 m 102db
- Consumption 32mA Max
- UNI EN54-3:2000+A1:2002

> FDSF200 Outdoor siren, with orange flash light

- Volume: 96 dB
- Speaker: piezo
- Base frequency: 3.2 – 3.8 kHz
- Modulating frequency: 3 Hz
- Box: plastic
- Consumption: 80 mA

> FDF24 Outdoor self powered siren *on request*

- Rated Power: 24 Vdc
- Backup battery: 12Vdc 2,1 Ah Pb
- Max. Charge: 0,5 A
- Sound power level max.: 102 db a 1mt
- Frequency: 1000Hz/ 1700Hz
- Fault: Red LED and "OUT test"
- Degree of Protection: IP33C
- Operating Temperature: -25 + 70C °
- Dimensions: 322x215x105 mm
- Weight: 2370 gr.
- Certificate of Conformity: 0051-CPD-0157
- Reference Standard: EN45-3 :2000+A1:2002
- Notified body: IMQ

> FD M5411 D Metal electromagnetic block

- Electromagnetic door block in steel housing
- Supplied with a counter plate and electrical connection
- Fitted with double cable sheath
- Retaining force: 40N
- Comes with release button and protection diode (Also available with no diode)
- Protection rating (IP) 42
- Power supply 12Vdc
- Consumption: 2W

> FD M9412 D Die-cast aluminium electromagnetic block

- Electromagnetic door block in reinforced vandal-proof aluminium housing
- Comes with release button and protection diode
- Retaining force: 40N
- Fitted with vandal-proof reel
- Protection rating (IP) 52
- Power supply: 24Vdc
- Consumption: 2W

> TD4027 Power units certified to EN 54-4 standards

• Management of up to 16 looped power units
• Certified to UNI EN 54:1997+A1:2002+A2:2006 -CPD-0072 standards
• Type: Switching 230/240V~ 24V/1A 50 Hz
• Output adjustment: +-10%
• Short circuit, overload, over voltage protection
• Maximal current deliverable to external units: 1.5A
• Battery charge current 0.2A
• Alarm signals on free potential contacts
• Tamper Power failure signal
• No power supply to the external loads signal
• Low battery signal
• Optical LED indication of: 230 Vac power supply presence, low battery, battery absence, low battery charger circuit
• In metal cabinet with housing for n° 2 accumulators up to 3 Ah
• Dimensions: 290x250x180
• Weight: Kg. 5

> TD6027 Power units certified to EN 54-4 standards

• Management of up to 16 looped power units
• Certified to UNI EN 54:1997+A1:2002+A2:2006 -0074 standards
• Switching type: 230/240V~ 27,6V/2,5A 50 Hz
• Output adjustment: +-10%
• Short circuit, overload, over voltage protection
• Maximal current deliverable to external units: 2.5A
• Battery charge current 0.2A
• Alarm signals on free potential contacts
• Tamper Power failure signal
• No power supply to the external loads signal.
• Low battery signal.
• Optical LED indication of: 230 Vac power supply presence, low battery, battery absence, low battery charger circuit
• In metal cabinet with housing for n° 2 accumulators up to 7 Ah
• Dimensions: 450x260x205
• Weight: Kg. 8.5

> TD15027 Power units certified to EN 54-4 standards

• Management of up to 16 looped power units
• Certified to UNI EN 54:1997+A1:2002+A2:2006 -CPD-0075 standards
• Switching type: 230/240V~ 27,6V/5.6A 50 Hz
• Output adjustment: +-10%
• Short circuit, overload, over voltage protection
• Maximal current deliverable to external units: 5A
• Battery charge current 0.6A
• Alarm signals on free potential contacts
• Tamper Power failure signal
• No power supply to the external loads signal.
• Low battery signal.
• Optical LED indication of: Network available, low battery, no battery, low battery, charger circuit
• On wall cabinets, able to house storage batteries up to 2 x 17Ah
• Dimensions: 450x260x205
• Weight: Kg. 11

> S-150-27

- Switching type: 230V/27,6V-5.6A 50Hz
- DC Adjustment +-10%
- Protection against: short Circuit, overload, power surge
- Dimensions: 199x50x110
- Weight: Kg. 0.8
- Standard: CEI EN 60950- CEI 79/2

> Cavo 32102 Red twisted grade 4 shielded fire-proof cable diameter 2 x 1 mm

- 30 min fire resistant

> Cavo 32152 Red twisted grade 4 shielded fire-proof cable diameter 2 x 1,50 mm

- 30 min fire resistant

> Bat1201 Rechargeable lead batteries 12Vdc 1,22 Ah 97L x 43P x 51A mm
> Bat1202 Rechargeable lead batteries 12Vdc 2 Ah 178L x 35P x 61A mm
> Bat1207 Rechargeable lead batteries 12Vdc 7 Ah 151L x 65P x 94A mm
> Bat1212 Rechargeable lead batteries 12Vdc 12 Ah 151L x 99P x 95A mm
> Bat1217 Rechargeable lead batteries 12Vdc 17 Ah 181L x 76P x 167A mm
> Bat1225 Rechargeable lead batteries 12Vdc 25 Ah 166L x 175P x 125A mm
> Bat1240 Rechargeable lead batteries 12Vdc 40 Ah 197L x 165P x 170A mm

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www.teledata-i.com

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