

# CATALOGUE



**Complete range of products and systems  
for fire alarm installations**

[www.sd3.fr](http://www.sd3.fr)



A world of fire detection equipment

## SD<sup>3</sup> : A WORLD OF FIRE DETECTION EQUIPMENT

### ***Our company***

SD<sup>3</sup> is specialized in sales, marketing, training and technical support of fire alarm products manufactured by our French panels and detectors' factories.

### ***Experience and world expansion***

We are part of the first French manufacturer of fire alarm systems and fire protection solutions in France with more than 60 years of experience. SD<sup>3</sup> is dedicated to collaborate with a network of partners all over the world.

### ***A French label and certifications***

Our «made in France» label, experience, certifications and the wide range of quality products make of us your ideal partner.

### ***Diversified products for different application areas and installation***

Our variety of products allows you to offer systems from the basic installation to the most advanced ones.

It also enables you to supply products in different fields of application : Hotels, buildings, shopping mall etc...as well as in the industrial one like nuclear power stations, specific storages, oil and gas environment etc...

### ***Customization***

We offer you the possibility to label our main products with your brand which will allow to expand our presence in new markets and build stronger partnerships.

We look forward to a fruitful partnership.

**Bernard Mongelli**

*Director*







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**SD<sup>3</sup> represents the export department of these factories all over the world.**

**Location : Massy (Paris) FRANCE**



**Detectors, Call points, Modules**

**Location: Dadonville FRANCE**

Created in 1989, FARE is specialised in developing and manufacturing conventional and addressable detectors.

**FARE CERTIFICATIONS :**

ISO / AFNOR / BOSEC-ANPI / CPD/CPR by notified body



**Conventional and Intelligent/Addressable panels**

**Location: Dadonville FRANCE**

SEFI was founded in 1970. The company manufactures conventional and addressable fire alarm panels and auxiliaries.

**SEFI CERTIFICATIONS :**

ISO / AFNOR / BOSEC-ANPI / CPD/CPR by notified body



**Sounders and flashes**

**Location: Massy (Paris) FRANCE**

**SESSY CERTIFICATIONS :**

AFNOR / BOSEC-ANPI / CPD/CPR by notified body



**Gas detectors and panels, Power supply**

**Location: Verona ITALY**

**DELTA ERRE CERTIFICATIONS :**

ISO / AFNOR / BOSEC-ANPI / CPD/CPR by notified body



**Voice evacuation, public address**

**Location: Montauban FRANCE**

**BOUYER CERTIFICATIONS :**

ISO / AFNOR



**Extinguishing system**

**Location: Paris FRANCE**

**EXTINCTIUM CERTIFICATIONS :**

ISO / AFNOR



**Stand alone detector**

**Location: Pithivier FRANCE**

**SHD CERTIFICATIONS :**

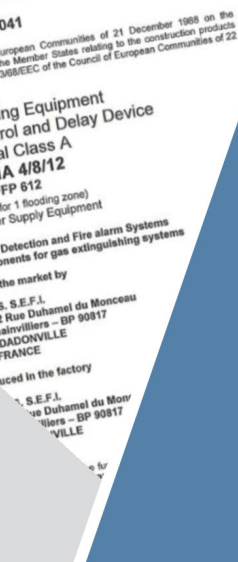
ISO / AFNOR







First French  
fire alarm  
manufacturer



Commercial  
relationship



Technical trainings  
Assistance



ion under  
ries brand  
the world









## CONVENTIONAL SYSTEMS ..... 6-15

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## CONVENTIONAL SYSTEMS

### PANELS

#### From 4 up to 12 zones

##### ALPHA 4/8/12

**12 ZONES FIRE DETECTION CONVENTIONAL PANEL equipped with 4 zones (max 12 zones)** - max 32 detectors and/or MCP per line.

- Alarm/fault relays,
  - 1 monitored sounders line,
  - 4 programmable open collectors,
  - 1 programmable input.
  - Alarm prealarm/management + Day night mode. Expandable panel with availability of 2 rooms for one or two 4 zones expansion board (EX4A4) or one or two Extinguishing boards (DEAG).
  - EN54-2, EN54-4, EN54-13 AFNOR, BOSEC, CE CPD/CPR, EN12094-1 with extinguishing board (DEAG).
  - Needs 2 batteries 12V/7Ah
- Exists also in 110VAC version



#### With fire brigade key

##### ALPHA 4/8/12 FBKEY

**12 ZONES FIRE DETECTION CONVENTIONAL PANEL equipped with 4 zones (max 12 zones)** - INCLUDING INTEGRATED FIRE BRIGADE KEY PROCESS (Action of key disable all function buttons). - Max 32 detectors and/or MCP per line.

- Alarm/fault relays,
- 1 monitored sounders line, 4 programmable open collectors, 1 programmable input.
- Alarm prealarm/management + Day night mode. - Expandable panel with availability of 2 rooms for one or two 4 zones expansion board (EX4A4) or one or two Extinguishing boards (DEAG).
- EN54-2, EN54-4 AFNOR, BOSEC, CE CPD, EN12094-1 with extinguishing board (DEAG). Needs 2 batteries 12V/7Ah



#### Options

##### Expansion zone

###### EX4A4



4 ZONES EXPANSION BOARD, max 32 detectors and/or MCP per line, 1 or 2 EX4A4 boards can be plugged in ALPHA 4/8/12 and permits to expand the panel to 8 (with 1xEX4A4) or to 12 zones (with 2xEX4A4)

##### Relay Card

###### REP4R



4 WAYS RELAY CARD, NO-NC 30V/1A, to be plugged inside the panel, connection by wires with programmable open collectors of ALPHA 4/8/12

###### R12P2



12 WAYS RELAY CARD, NO-NC 30V/1A, to be plugged inside ALPHA 4/8/12 panel, serial communication, permits to repeat states of the panel on 12 relays

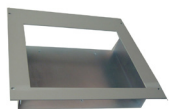
###### REP4MO



4 SEPARATED MONITORED WAYS SOUNDER CIRCUIT extension board, permits to have 4 monitored sounder circuits. To be plugged inside the panel

##### Flushmounting

###### ALP24-KIT19



FLUSH MOUNTING METALLIC FRAME and backbox for ALPHA 4/8/12 or HEPHAIS 128

### Accessories

##### TR-SDI

REMOTE INDICATOR PANEL with leds and function keys, to repeat general alarm and fault, local test leds and silence buzzer

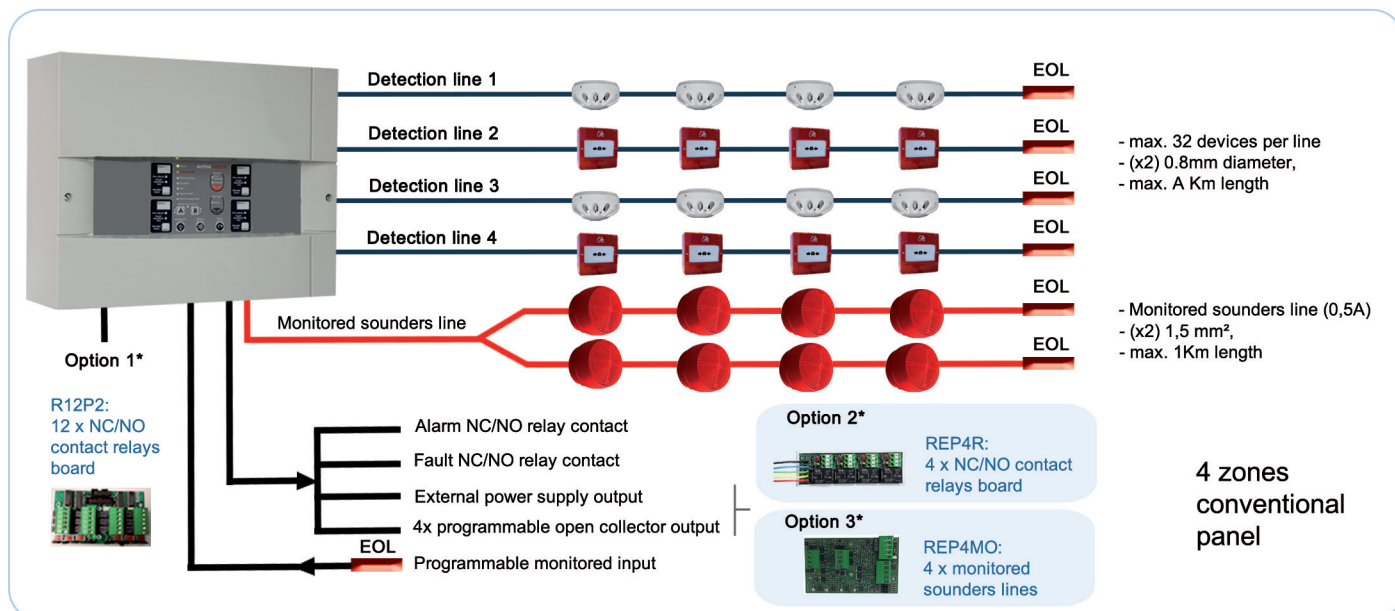






# CONVENTIONAL SYSTEMS

## ALPHA 4/8/12 : 4, 8 or 12 CONVENTIONAL ZONES PANEL



\*Note: The panel support one option only.



## CONVENTIONAL SYSTEMS

### FIRE DETECTORS

#### 05 range



##### OC05

CONVENTIONAL OPTICAL SMOKE DETECTOR, 1 remote led output, **EN54-7, CE according to CPD/CPR**



##### TRC05

CONVENTIONAL RATE OF RISE + FIXED HEAT DETECTOR,  $T^{\circ} = 62^{\circ}\text{C}$ ,  $+ 9^{\circ}\text{C/min}$ , 1 remote led output, **EN54-5, CE according to CPD/CPR**



##### TSC05-A1S

CONVENTIONAL FIXED HEAT DETECTOR,  $T^{\circ} = 62^{\circ}\text{C}$ , 1 remote led output, **EN54-5, CE according to CPD/CPR**



##### TSC05-BS

CONVENTIONAL FIXED HEAT DETECTOR,  $T^{\circ} = 75^{\circ}\text{C}$ , 1 remote led output, **EN54-5, CE according to CPD/CPR**

#### 12Vdc application with 05 range



##### OC05.12 or OC05.12-AR

CONVENTIONAL OPTICAL SMOKE DETECTOR, for 12V security type systems, to be used with R05 relay board, alarm latched or autoresettable (AR version)



##### TRC05.12 or TRC05.12-AR

CONVENTIONAL RATE OF RISE + FIXED HEAT DETECTOR,  $T^{\circ} = 62^{\circ}\text{C}$ ,  $+ 9^{\circ}\text{C/min}$ , for 12V security type systems, to be used with R05 relay board, alarm latched or autoresettable (AR version)



##### TSC05-A1S.12 or TSC05-A1S.12-AR

CONVENTIONAL FIXED HEAT DETECTOR,  $T^{\circ} = 62^{\circ}\text{C}$ , for 12V security type systems, to be used with R05 relay board, alarm latched or autoresettable (AR version)



##### TSC05-BS.12 or TSC05-BS.12-AR

CONVENTIONAL FIXED HEAT DETECTOR,  $T^{\circ} = 75^{\circ}\text{C}$ , for 12V security type systems, to be used with R05 relay board, alarm latched or autoresettable (AR version)

#### Bases and accessories



##### S05SE

UNIVERSAL BASE WITH STICK ADDRESS SOCKET for 05-range conventional and addressable detectors



##### PES05

FLUSHMOUNTING PIECE FOR BASE (Base not included), permits to flushmount a 05 range detector



##### SOUND05+S05SE

BASE WITH INTERNAL SOUNDER 95db @ 1m, Possibility to select 6 tones and 3 intensitivity levels, **EN54-3, CE according to CPD/CPR**



##### R05

RELAY BOARD (12V or 24V) for 05 detectors (to be plugged in S05), NO-NC 30V/1A



##### CS05

PROTECTION PLATE for S05 base, permits to cover a base without detector



##### BRI/EM + S05SE

Universal base with GLANDS HOLE for 05 range, base for tubes connections



##### BRI+S05SE

WATERPROOF universal base with glands for 05 range (IP65), base for tubes connections supplied with glands



##### GAV

ANTIVANDALISM protection grid





## CONVENTIONAL SYSTEMS

### FLAME DETECTORS



#### IRY2+S95

CONVENTIONAL INFRARED FLAME DETECTOR, 1 remote led output, vision cone  $\pm 45^\circ$ , Distance max 25m, EN54-10 class 1 and 2, CE according to CPD/CPR, base included



#### IRY2-IP65

CONVENTIONAL INFRARED FLAME DETECTOR, 1 remote led output, vision cone  $\pm 45^\circ$ , Distance max 25m, IP65 box, dim 225x175x80, CE according to CPD/CPR

### MANUAL CALL POINTS

#### 05 range



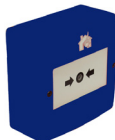
#### DMCL05

CONVENTIONAL MANUAL CALL POINT resettable with key without breaking glass, led and alarm resistor integrated, RED colour, EN54-11, CE according to CPD



#### DMCL05-J

CONVENTIONAL MANUAL CALL POINT resettable with key without breaking glass, led and alarm resistor integrated, YELLOW colour



#### DMCL05-B

CONVENTIONAL MANUAL CALL POINT resettable with key without breaking glass, led and alarm resistor integrated, BLUE colour

#### Accessories



#### PEDM

PLASTIC FRAME for flush mounting MCP



#### VPDM

TRANSPARENT LIFT-UP protective cover for MCP, permits a double action (supplied with protection label)



#### KCTDM

KIT OF 10 RESET KEYS for 05 MCP

### 05 waterproof MCP



#### DMC05 E

CONVENTIONAL **WATERPROOF** MANUAL CALL POINT resettable with key without breaking glass, led and alarm resistor integrated, RED colour, EN54-11, CE according to CPD/CPR



## CONVENTIONAL SYSTEMS

### AIR DUCT DETECTION



#### BTG05-P5901

AIR DUCT DETECTOR HOUSING for 05 range (optical detector not included), dimensions 220x186x105mm, IP55

### DIGITAL LINEAR HEAT DETECTION

#### HC68

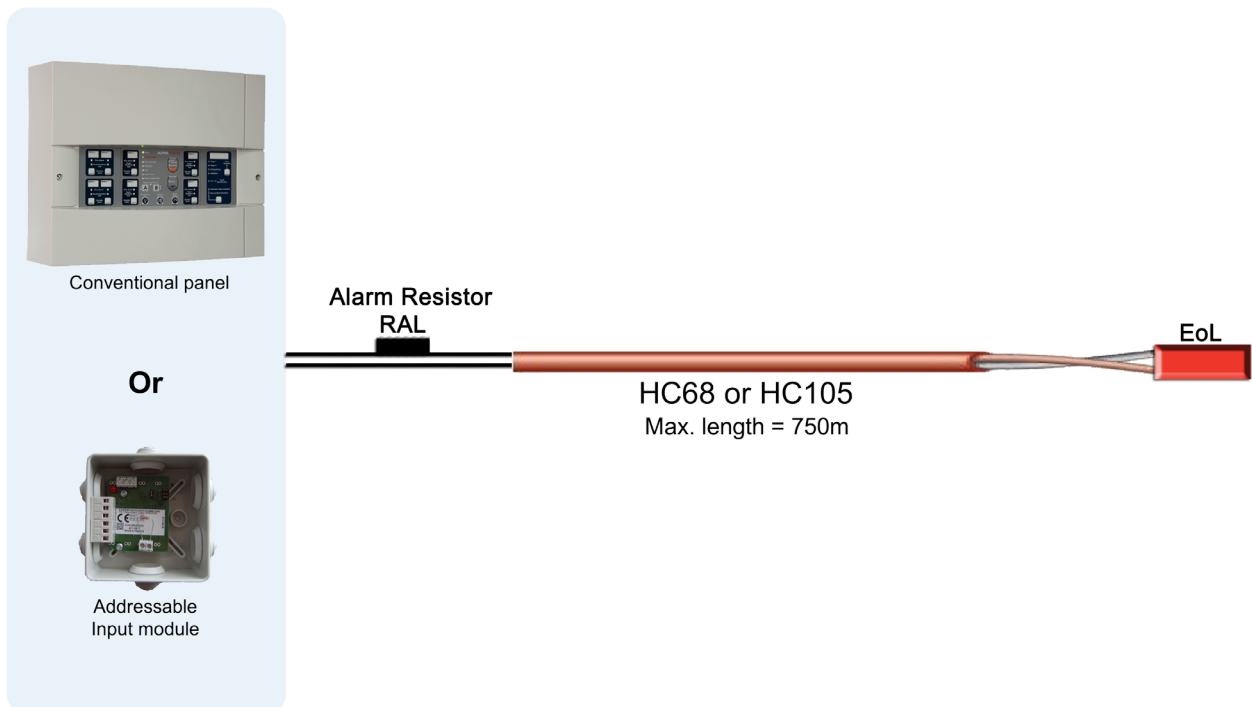


LINEAR HEAT DETECTION cable 68° (price per meter) connectable directly to conventional panels or addressable modules

#### HC105



LINEAR HEAT DETECTION cable 105° (price per meter) connectable directly to conventional panels or addressable modules







## CONVENTIONAL SYSTEMS

### STAND ALONE DETECTORS

#### SMOKE ALARM DETECTOR



##### DOF49

DOMESTIC PHOTOELECTRIC SMOKE ALARM DETECTOR with 9V battery, 5 years life duration, 6 years warranty, CE EN14604 according to CPD (Exists also with lithium battery 9Vdc 10 years life duration)



##### VESTA

DOMESTIC PHOTOELECTRIC SMOKE ALARM DETECTOR with 9V battery, 5 years life duration, 6 years warranty, CE EN14604 according to CPD (Exists also with lithium battery 9vdc 10 years life duration). Dedicated for wireless application (wireless module not included)

#### Accessories for VESTA



##### DAAF-REL

PLUG IN CARD with NO contact, permits to repeat the state of alarm (for intrusion panels)

#### GAS ALARM DETECTOR



##### DAACO10

Stand alone CARBON MONOXIDE (CO) gas detector with electrochemical sensor, embedded buzzer. Supplied with 5 years life duration battery. CE CPD EN50291 conform



Defective or badly installed  
gas heater devices



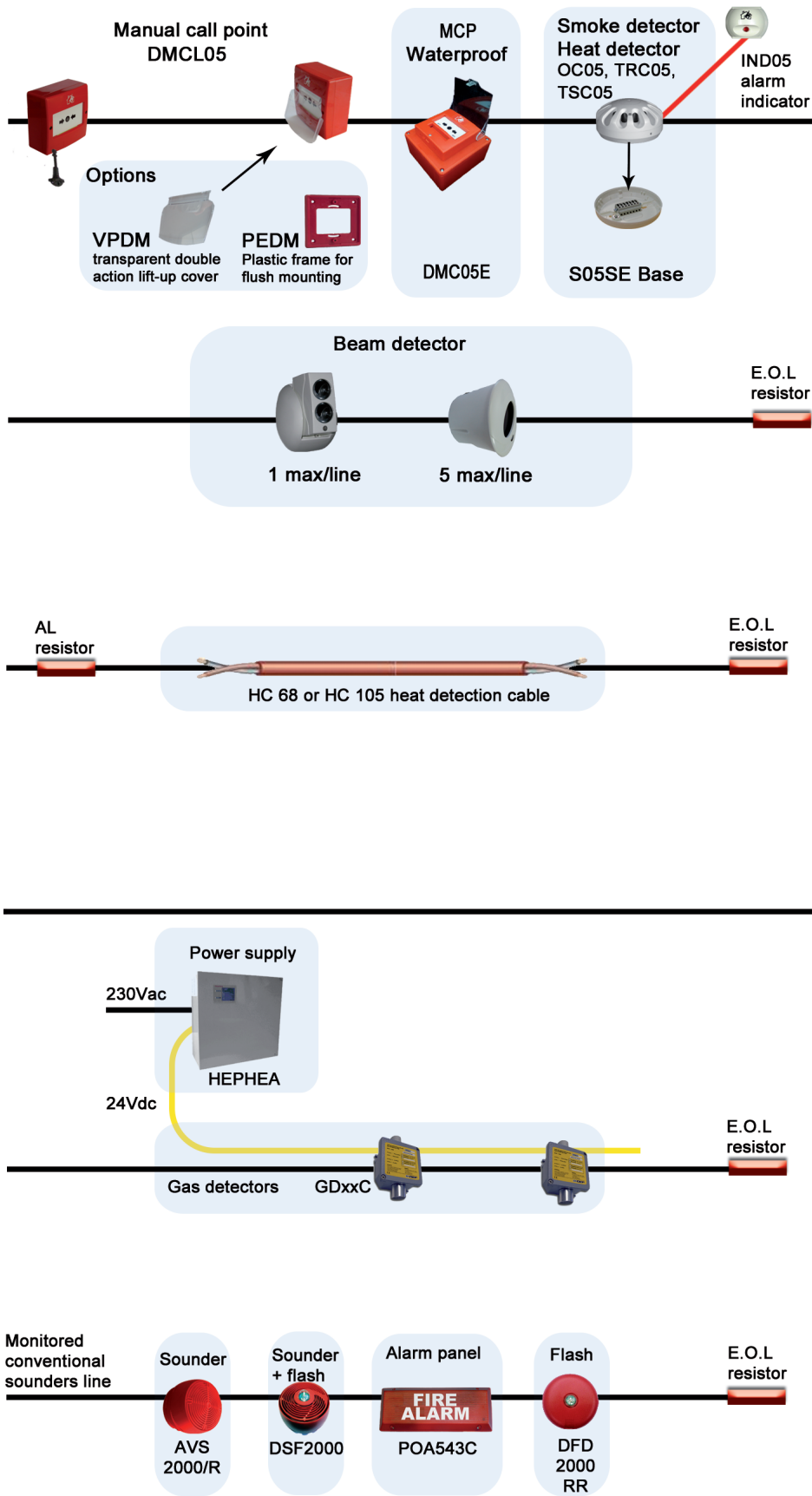
Motor gas



Combustion in a closed  
area or badly ventilated

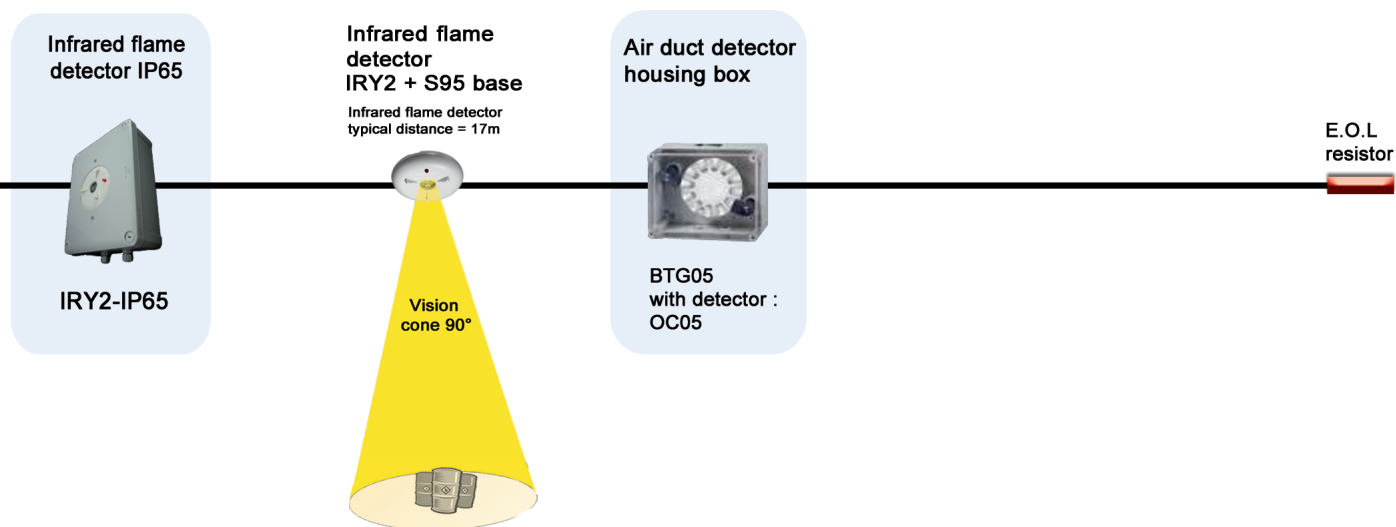
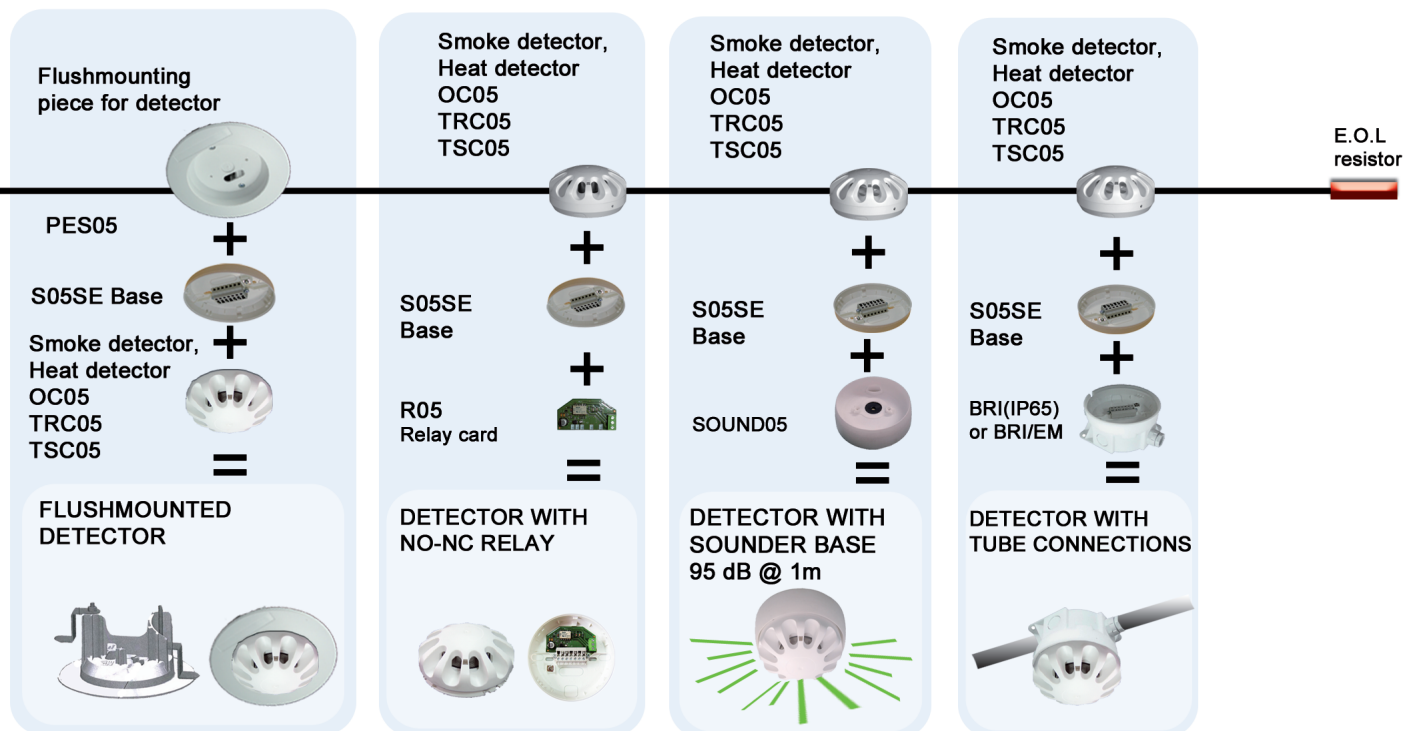


ALPHA 4/8/12

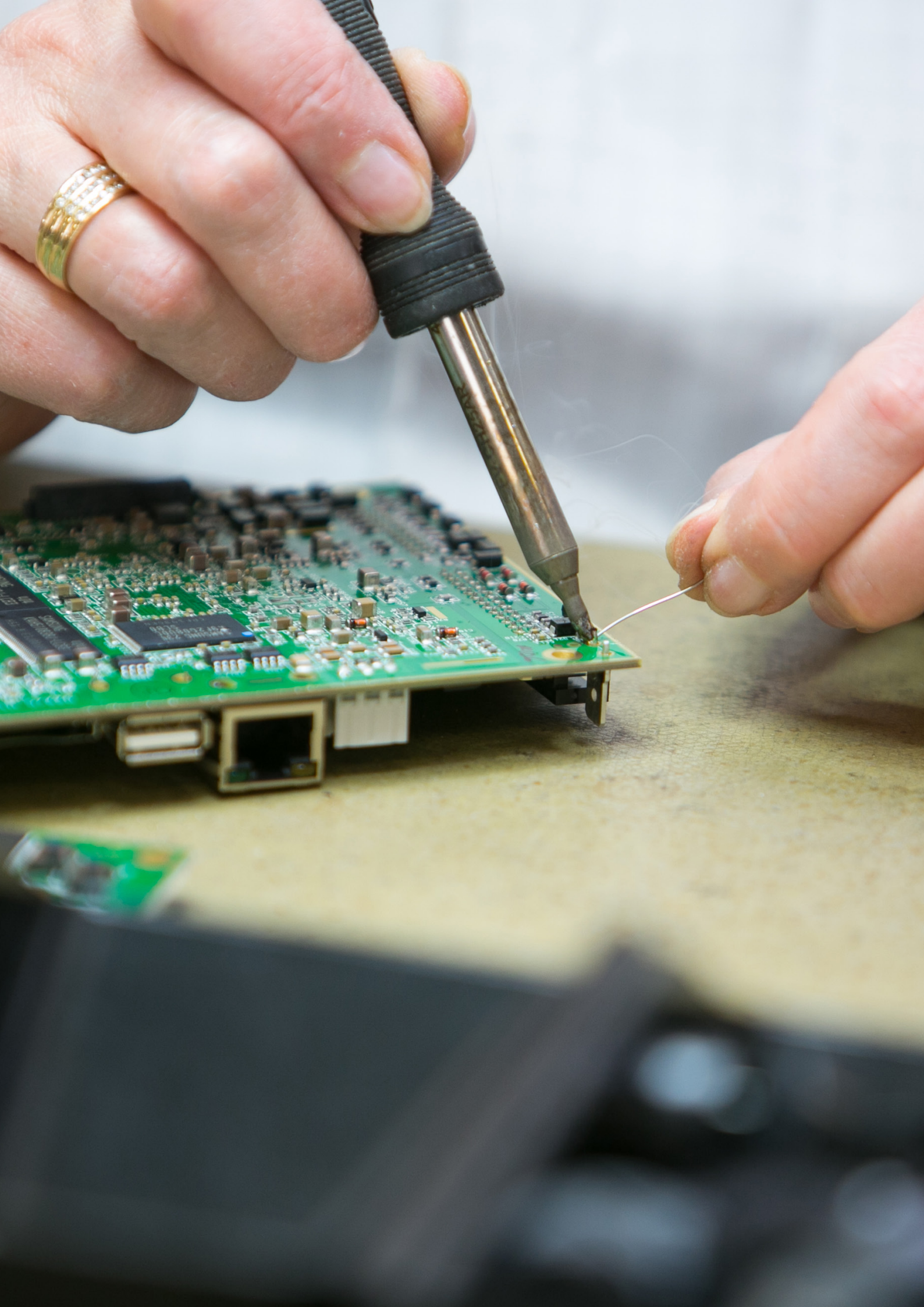




## CONVENTIONAL GENERAL VIEW









## **INTELLIGENT / INTERACTIVE PANELS AND DETECTORS / DEVICES .....16-31**

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# INTELLIGENT/INTERACTIVE PANELS AND DETECTORS/DEVICES

## PANELS

### From 1 to 128 addresses

#### HEPHAIS 128

INTELLIGENT/INTERACTIVE COMPACT CONTROL PANEL, 128 ADDRESSES, 2 loops or 4 open circuits (open circuit with max 32 addresses), 99 ZONES, 1000 memory events, 1 monitored sounders line + 5 programmable output relays, 1xRS232 serial output for printer or remote control panel, 2 programmable inputs. The panel can be set by keyboard or software. Needs 2 internal batteries 12V/7Ah. EN54-2, EN54-4, EN54-13 CE according to CPD/CPR

#### TELEHEPHAIS 128

SOFTWARE PROGRAMMING TOOL for HEPHAIS 128, uploading/downloading

#### AJ127

Serial cable for software PROGRAMMING TOOL

### From 1 to 400 addresses

#### HEPHAIS 1600 NE COMFORT

INTELLIGENT/INTERACTIVE COMPACT CONTROL PANEL, NOT EXPANDABLE, 400 ADDRESSES, 2 master loops or 4 spur circuits (open circuit with max 32 addresses), USER INTERFACE FRONT PANEL (command and control) TFT COLOR GRAPHIC DISPLAY 4.3inches ,1000 ZONES, 2700 memory events, 2 monitored sounders lines + 3 programmable output relays, 1xRS232 serial output for remote control panel, 2 programmable inputs, RS422 JBUS monitoring output. TCP/IP Connection for safe remote monitoring interface. Needs 2 internal batteries 12V/12Ah. EN54-2, EN54-4, EN54-13 CE according to CPD/CPR

#### TELEHEPHAIS 1600

SOFTWARE PROGRAMMING TOOL for HEPHAIS 1600 NE and HEPHAIS 1600

#### AJ127

Serial cable for software PROGRAMMING TOOL

### Specific software

#### LOCK 1600-3

CUSTOMER SIGNATURE PROTECTION Hardware Key for HEPHAIS 1600 NE and HEPHAIS 1600. Permits with TELEHEPHAIS 1600 to upload/download the panel with your own signed protection key, PACK of 3xKEYS, with or without time bomb

#### TIME BOMB RENEW

Renewal of 1 year time bomb

### Options

#### Relay card

##### R7P2

7 RELAY CARD, NO-NC 30V/1A, to be plugged inside the panel, serial communication, permits to repeat states of the panel on 7 relays

##### R12P2

12 RELAY CARD, NO-NC 30V/1A, to be plugged inside the panel, serial communication, permits to repeat states of the panel on 12 relays

#### Remote monitoring panel

##### ALPHA RE

REMOTE USER INTERFACE PANEL with serial 485 connection, alphanumeric display LCD 160 characters and keyboard

### Options

#### Relay card

##### R7P2

7 RELAY CARD, NO-NC 30V/1A, to be plugged inside the panel, serial communication, permits to repeat states of the panel on 7 relays

##### R12P2

12 RELAY CARD, NO-NC 30V/1A, to be plugged inside the panel, serial communication, permits to repeat states of the panel on 12 relays

##### C20R

20 RELAY CARD, NO-NC 30V/1A, to be plugged inside the panel, serial communication, permits to repeat states of the panel on 20 relays

#### Sounder circuit

##### X4EVAC

4 MONITORED WAYS SOUNDER CIRCUIT extension board, permits to multiply 1 sounder circuit in 4 activated simultaneously, to be plugged inside the panel

#### Remote monitoring panel

##### TR15 TOUCH

Repeater for addressable systems with 7inches colour touchscreen and advanced user-friendly interface.

##### MIHMNG-EXT

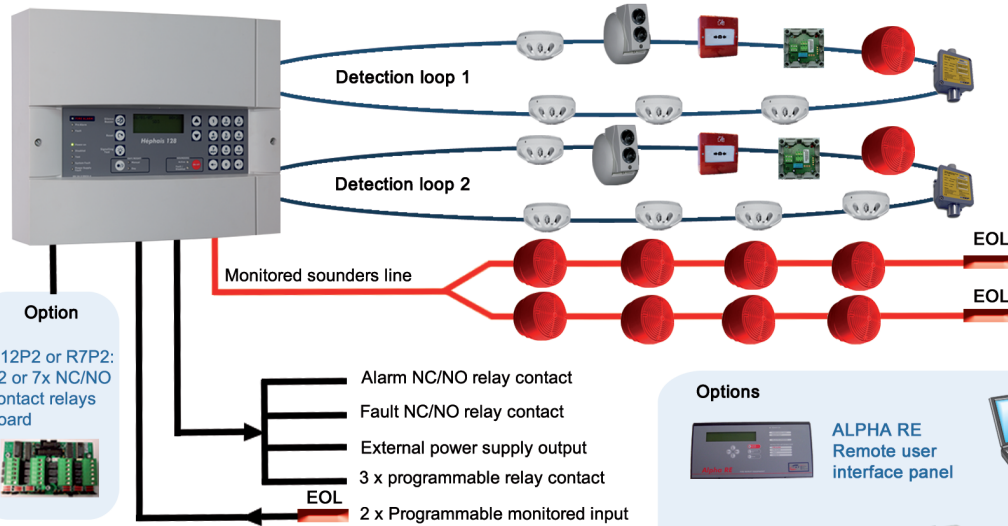
COMMUNICATION CARD FOR COMFORT USER INTERFACE FRONT PANEL. This card is necessary for a remote use of COMFORT 1600 front panel or TR15 Touch connection.





# INTELLIGENT/INTERACTIVE PANELS AND DETECTORS/DEVICES

## HEPHAIS 128 : FROM 1 TO 128 ADDRESSES



- 2 Loops (or 4 open lines)
- (x2) 0,8 mm diameter,
- max. 2 Km length
- max. 128 addresses for panel

- Monitored sounders line (0,5A)
- (x2) 1,5 mm<sup>2</sup>,
- max. 1Km length

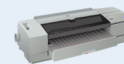
### Options



ALPHA RE  
Remote user  
interface panel

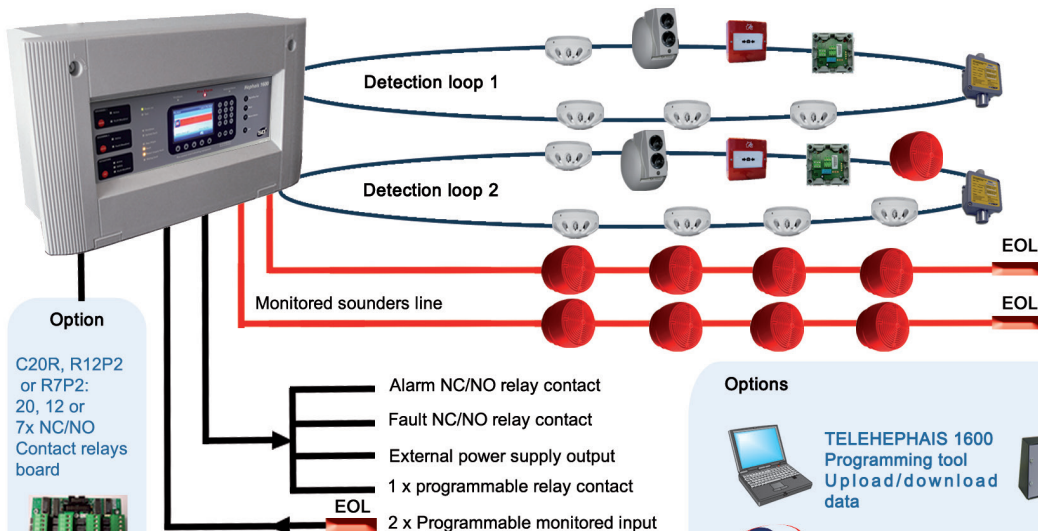


TELEHEPHAIS 128  
Programming tool  
Upload/download data



IMP/E  
Serial printer

## HEPHAIS 1600 NE COMFORT : FROM 1 TO 400 ADDRESSES



- 2 Loops (or 4 open lines)
- (x2) 0,8 mm diameter,
- max. 2 Km length
- max. 400 addresses for panel
- max. 200 addresses per loop

- 2 Monitored sounders line (1A)
- (x2) 1,5 mm<sup>2</sup>,
- max. 1Km length

### Options



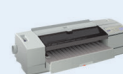
TELEHEPHAIS 1600  
Programming tool  
Upload/download data



RFH 1600 COMFORT  
Remote user control  
and command interface panel



Jbus protocol,  
graphic monitoring  
software



IMP/E  
Serial printer



TR15 TOUCH  
Repeater for  
addressable systems



COMFORT 1600  
Remote user control  
and command interface panel



# INTELLIGENT/INTERACTIVE PANELS AND DETECTORS/DEVICES

## PANELS

From 1 to 1600 addresses



### HEPHAIS 1600-400 COMFORT/L

MODULAR INTELLIGENT/INTERACTIVE FIRE CONTROL PANEL MAX 1600 POINTS, 16 LOOPS - supplied as standard for 400 points on 2 master loops (max 200 addresses/loop) or 4 open circuits, expandable up to 7 x MG2B (loop boards), in large box with integrated **USER INTERFACE FRONT PANEL (command and control)** **TFT COLOR GRAPHIC DISPLAY 4.3inches**, and keyboard, 1000 Zones, 2700 memory events, 2 monitored sounders lines + 3 programmable output relays, 1xRS232 serial output for printer and 1xRS485 serial output for remote control panel, 4 programmable inputs, RS422 JBUS monitoring output, networkable with MGNET board. **TCPIP Connection for safe remote monitoring interface**. Needs 2 internal batteries 12V/17Ah or 12V/24Ah. **EN54-2, EN54-4, EN54-13, CE** according to CPD/CPR



### HEPHAIS 1600-400 COMFORT/S

MODULAR INTELLIGENT/INTERACTIVE FIRE CONTROL PANEL MAX 1600 POINTS, 10 LOOPS - supplied as standard for 400 points on 2 master loops (max 200 addresses/loop) or 4 open circuits, expandable up to 4 x MG2B (loop boards), in small box with integrated **USER INTERFACE FRONT PANEL (command and control)** **TFT COLOR GRAPHIC DISPLAY 4.3inches**, and keyboard, 1000 Zones, 2700 memory events, 2 monitored sounders lines + 3 programmable output relays, 1xRS232 serial output for printer and 1xRS485 serial output for remote control panel, 4 programmable inputs, RS422 JBUS monitoring output, networkable with MGNET board. **TCPIP Connection for safe remote monitoring interface**. Needs 2 internal batteries 12V/12Ah. **EN54-2, EN54-4, EN54-13, CE** according to CPD/CPR



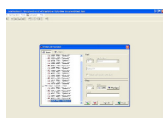
### HEPHAIS 1600-400/L BB

MODULAR INTELLIGENT/INTERACTIVE FIRE CONTROL PANEL MAX 1600 POINTS, 16 LOOPS - supplied as standard for 400 points on 2 master loops (max 200 addresses/loop) or 4 spur circuits, expandable up to 7 x MG2B (loop boards), **in large box without front panel**, 1000 Zones, 2700 memory events, 2 monitored sounders lines + 3 programmable output relays and 1xRS485 serial output for remote control panel, 4 programmable inputs, RS422 JBUS monitoring output, networkable with MGNET board. Needs 2 internal batteries 12V/17Ah or 12V/24Ah. **EN54-2, EN54-4, EN54-13, CE** according to CPD/CPR



### HEPHAIS 1600-400/COMFORT LPM

MODULAR INTELLIGENT/INTERACTIVE FIRE CONTROL PANEL MAX 1600 POINTS, 16 LOOPS - supplied as standard for 400 points on 2 master loops (max 200 addresses/loop) or 4 spur circuits, expandable up to 7 x MG2B (loop boards), in large metallic with integrated **USER INTERFACE FRONT PANEL (command and control)** **TFT COLOR GRAPHIC DISPLAY 4.3inches**, and keyboard 1000 Zones, 2700 memory events, 2 monitored sounders lines + 3 programmable output relays, 1xRS232 serial output for printer and 1xRS485 serial output for remote control panel, 2 programmable inputs, RS422 JBUS monitoring output, networkable with MGNET board. **TCPIP Connection for safe remote monitoring interface**. Needs 2 internal batteries 12V/17Ah or 12V/24Ah. **EN54-2, EN54-4, EN54-13, CE** according to CPD/CPR



### TELEHEPHAIS 1600

SOFTWARE PROGRAMMING TOOL for HEPHAIS 1600 range



### AJ127

Serial cable for software PROGRAMMING TOOL

## specific software



### LOCK 1600-3

CUSTOMER SIGNATURE PROTECTION Hardware Key for HEPHAIS 1600 NE and HEPHAIS 1600. Permits with TELEHEPHAIS 1600 to upload/download the panel **with your own signed protection key, PACK of 3xKEYS, with or without time bomb**

### TIME BOMB RENEW

RENEWAL of 1 year time bomb



# INTELLIGENT/INTERACTIVE PANELS AND DETECTORS/DEVICES

## PANELS

### HEPHAIS 1600 range

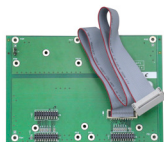
#### Loop card

##### MG2B



EXTENSION MODULE 2 LOOPS (max 200 points per loop) or 4 spur circuits (max 32 points per circuit) to be plugged inside the panel

##### IE2M



IE2M is an extension board with connectors allowing to connect from 2 to 4 MG2B. This board permits to expand the panel from 10 to 16 loops. Necessary if more than 10 loops needed

#### Network cards



##### MGNET

NETWORK CARD, must be plugged in each panel for network application, network done with RS485 redundant connection

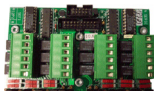
#### Relay card

##### R7P2



7 RELAY CARD, NO-NC 30V/1A, to be plugged inside the panel, serial communication, permits to repeat states of the panel on 7 relays

##### R12P2



12 RELAY CARD, NO-NC 30V/1A, to be plugged inside the panel, serial communication, permits to repeat states of the panel on 12 relays

##### C20R



20 RELAY CARD, NO-NC 30V/1A, to be plugged inside the panel, serial communication, permits to repeat states of the panel on 20 relays

#### Sounder circuit

##### X4EVAC



4 MONITORED WAYS SOUNDER CIRCUIT extension board, permits to multiply 1 sounder circuit in 4 activated simultaneously, to be plugged inside the panel

### Options

#### Printers



##### IMP

INTERNAL SERIAL FLUSH MOUNTED PRINTER can be directly mounted in metallic box of HEPHAIS 1600 or through CACHE-IMPRI-3U piece for plastic box



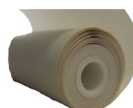
##### CACHE-IMPRI-3U

MOUNTING KIT front panel to flushmount IMP printer in HEPHAIS 1600 COMFORT 1600-400/L



##### IMP/E

EXTERNAL SERIAL PRINTER, dimensions 165x135x50mm



##### KCT10

PACK OF 10 THERMIC PAPER ROLLS

#### Remote monitoring and command panel



##### RFH 1600 COMFORT

USER INTERFACE FRONT PANEL (command and control) TFT COLOR GRAPHIC DISPLAY 4.3inches, and keyboard, 19 inches, 3U, can be integrated in cabinet or in CO3U console. TCP/IP Connection for safe remote monitoring interface



##### CO3U

PLASTIC BOX CONSOLE for RFH 1600 front panel or COMFORT 1600



##### TR15 TOUCH

Repeater for addressable systems with 7inches colour touchscreen and advanced user-friendly interface.



##### MIHMNG-EXT

COMMUNICATION CARD FOR COMFORT USER INTERFACE FRONT PANEL. This card is only necessary for a remote use of COMFORT 1600 front panel

#### Remote monitoring panel



##### ALPHA RE

REMOTE USER INTERFACE PANEL with serial 485 connection, alphanumeric display LCD 160 characters and keyboard



##### TR15 TOUCH

Repeater for addressable systems with 7inches colour touchscreen and advanced user-friendly interface.



##### MIHMNG-EXT

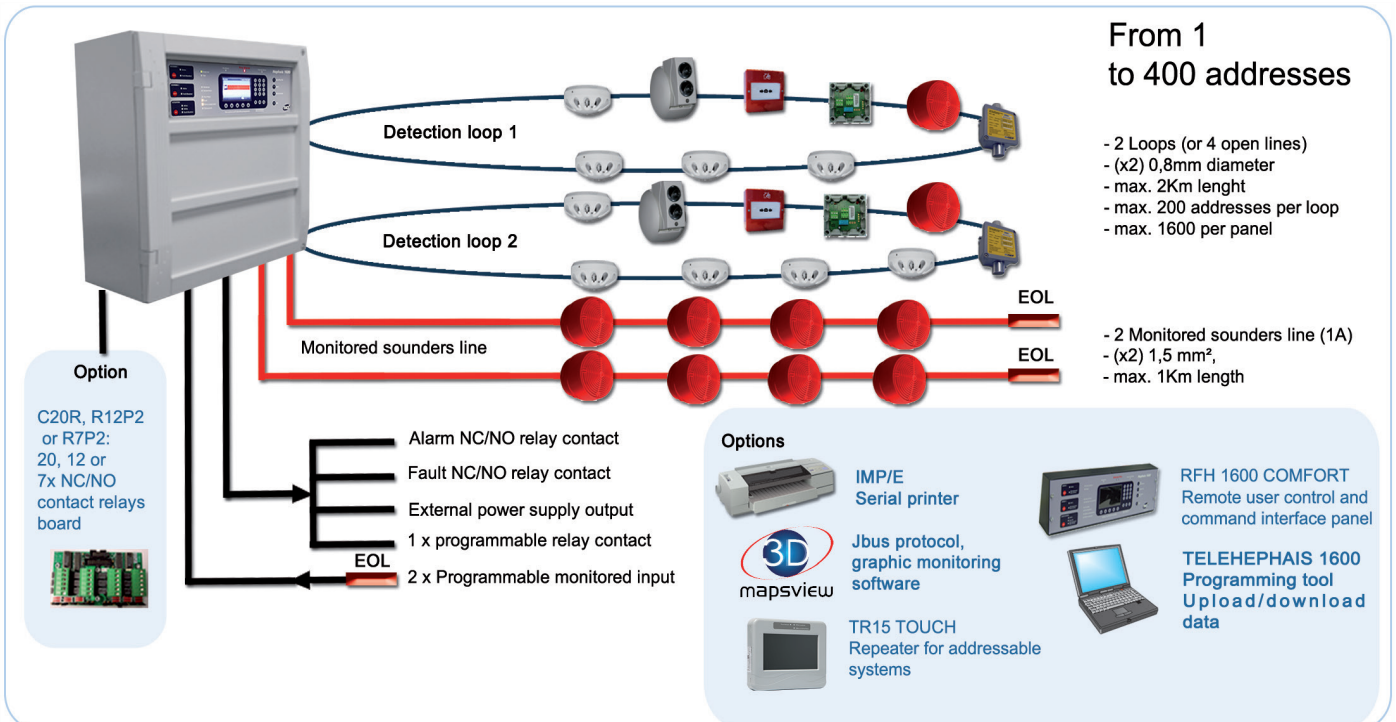
COMMUNICATION CARD FOR COMFORT USER INTERFACE FRONT PANEL. This card is necessary for a remote use of COMFORT 1600 front panel or TR15 Touch connection.





# INTELLIGENT/INTERACTIVE PANELS AND DETECTORS/DEVICES

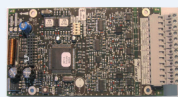
## HEPHAIS 1600 COMFORT : FROM 1 TO 1600 ADDRESSES



### Option

From 1 to 4 MG2B

**MG2B**  
Loop module  
2 loops, 2X 200 addresses



10 loops - 1600 addresses



### Option

**IE2M**  
Extension board



### Option

From 1 to 7 MG2B  
**MG2B**  
Loop module  
2 loops, 2X 200 addresses



16 loops  
1600 addresses



### Option

**MGNET**  
Network board

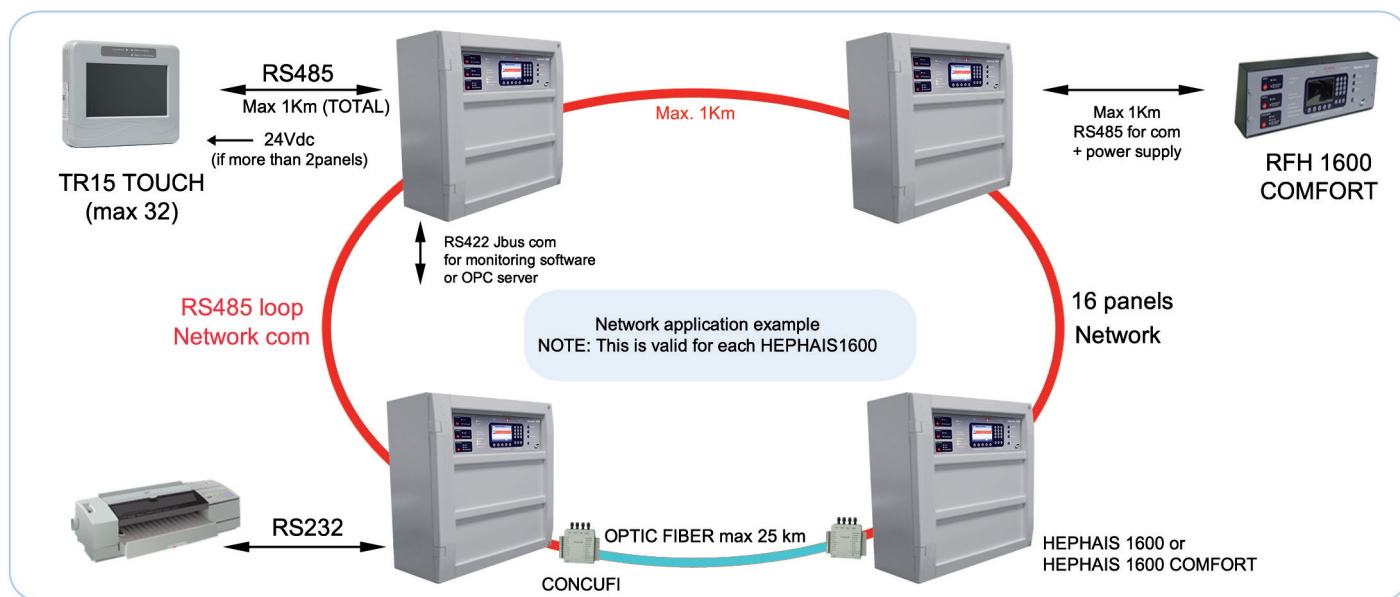


Networkable panel  
(max 16 panels)

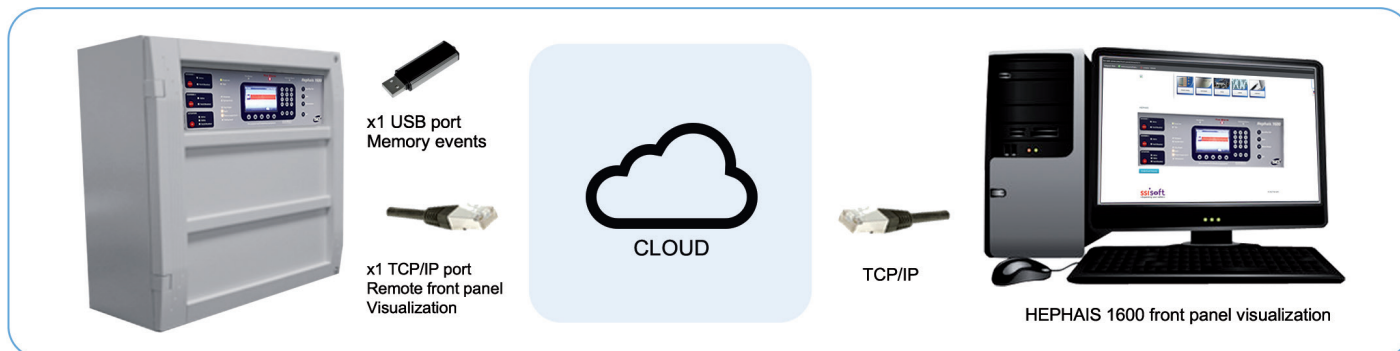


# INTELLIGENT/INTERACTIVE PANELS AND DETECTORS/DEVICES

## Network of HEPHAIS 1600 COMFORT PANEL



## FIREWEB



## FIREWEB SERVER / TCPIP REMOTE CONNECTION on COMFORT 1600 and 1600NE panels

### FWS-CX-12

12 months license for **remote monitoring AND commands** for HEPHAIS 1600 NE COMFORT or HEPHAIS 1600 COMFORT through TCPIP connection and cloud. With local authorization (X=A) or without (X=O). Validity time before renewal = 12 months

### FWS-CX-36

36 months license for **remote monitoring AND commands** for HEPHAIS 1600 NE COMFORT or HEPHAIS 1600 COMFORT through TCPIP connection and cloud. With local authorization (X=A) or without (X=O). Validity time before renewal = 36 months

### FWS-VX-12

12 months license for **remote monitoring** for HEPHAIS 1600 NE COMFORT or HEPHAIS 1600 COMFORT through TCPIP connection and cloud. With local authorization (X=A) or without (X=O). Validity time before renewal = 12 months

### FWS-VX-36

36 months license for **remote monitoring** for HEPHAIS 1600 NE COMFORT or HEPHAIS 1600 COMFORT through TCPIP connection and cloud. With local authorization (X=A) or without (X=O). Validity time before renewal = 36 months



# INTELLIGENT/INTERACTIVE PANELS AND DETECTORS/DEVICES

## INTELLIGENT FIRE DETECTORS

### 05 range

#### OA05

INTELLIGENT/INTERACTIVE OPTICAL SMOKE DETECTOR, microprocessor based, 1 programmable remote alarm indicator output, 8 levels sensitivity setting, EN54-7, CE according to CPD/CPR



#### TA05

INTELLIGENT/INTERACTIVE HEAT DETECTOR, static or/and rate of rise, microprocessor based, 1 programmable remote alarm indicator output, 6 levels sensitivity setting, EN54-5, CE according to CPD/CPR



#### MA05

INTELLIGENT/INTERACTIVE OPTICAL-HEAT DETECTOR, multicriteria or combined, microprocessor based, 1 programmable remote alarm indicator output, 8 levels sensitivity setting, EN54-7, CE according to CPD/CPR



## Detector range with integrated isolator

#### OA12

INTELLIGENT/INTERACTIVE OPTICAL SMOKE DETECTOR, WITH EMBEDDED ISOLATOR, microprocessor based, 1 programmable remote alarm indicator output, 8 levels sensitivity setting, EN54-7, CE according to CPD/CPR



#### TA12

INTELLIGENT/INTERACTIVE HEAT DETECTOR, WITH EMBEDDED ISOLATOR, static or/and rate of rise, microprocessor based, 1 programmable remote alarm indicator output, 6 levels sensitivity setting, EN54-5, CE according to CPD/CPR



#### MA12

INTELLIGENT/INTERACTIVE OPTICAL-HEAT DETECTOR, WITH EMBEDDED ISOLATOR, multicriteria or combined, microprocessor based, 1 programmable remote alarm indicator output, 8 levels sensitivity setting, EN54-7, CE according to CPD/CPR



## Bases and accessories

### Standard base

#### S05SE

UNIVERSAL BASE WITH STICK ADDRESS SOCKET for 05-range conventional and addressable detectors



### Accessories for S05 base

#### PES05

FLUSHMOUNTING PIECE FOR BASE (Base not included), permits to flushmount a 05 range detector



#### BRI/EM + S05SE

Universal base with GLANDS HOLE for 05 range, base with tubes connections



#### BRI + S05SE

WATERPROOF universal base with glands for 05 range (IP65), base with tubes connections supplied with glands





## INTELLIGENT/INTERACTIVE PANELS AND DETECTORS/DEVICES

### Sounder base with S05 base



#### SOUND05 + S05SE

BASE WITH INTERNAL SOUNDER 95db @ 1m, Possibility to select 6 tones and 3 intensivity levels, EN54-3, CE according to CPD/CPR

### Isolator for 05 range



#### ICC05

PLUG IN ISOLATOR BOARD for 05 detectors (to be plugged in S05SE)

### Bases and accessories for 05 & 12

#### S12 double terminal, no screw drivers bases



#### S12

UNIVERSAL BASE WITH STICK ADDRESS SOCKET for 05 and 12 range conventional and addressable detectors. Double terminal block, no screw driver, easy wiring. Sold by pack of 10. Label plate support included.

#### Accessories for base



#### PSS15

Mounting adapter to secure fixing S12 on suspended false ceiling. Sold by pack of 900



#### KMIPN

Fastening kit to fix the detector base S12 on steel beam. Exists for thickness 3-8mm, 8-14mm, 14-20mm



#### PMSP

Fastening kit to the detector base S12 under raised floor



#### OAR15

Optional tool for wiring and stripping



#### PES12

FLUSHMOUNTING PIECE FOR BASE permits to flushmount a 05, 12 range base including wiring connection and label holder



#### BRI/EM + S12

Universal base with GLANDS HOLE for 05 and 12 range, base for tubes connections



#### BRI + S12

WATERPROOF universal base with glands for 05 and 12 range (IP65), base for tubes connections supplies with glands

### Sounder base with S12 base



#### SOUND05 + S12

BASE WITH INTERNAL SOUNDER 95db @ 1m. Possibility to select 6 tones and 3 intensivity levels, EN54-3, CE according to CPD/CPR

### Accessories for S05 and S12 Bases



#### GAV

ANTIVANDALISM protection grid

### Addressable flame detector



#### IR95+S95

ANALOGUE/ADDRESSABLE INFRARED FLAME DETECTOR, microprocessor based, 1 programmable remote alarm indicator output, base included EN54-10 CE according to CPD/CPR



## INTELLIGENT/INTERACTIVE PANELS AND DETECTORS/DEVICES

### ADDRESSABLE MANUAL CALL POINTS

#### 05 range

##### DMA05

ADDRESSABLE MANUAL CALL POINT  
resettable with key without breaking glass,  
integrated isolator, red colour,  
EN54-11, EN54-17, CE according to CPD/CPR



##### DMA05R

ADDRESSABLE MANUAL CALL POINT  
resettable with key without breaking glass,  
integrated isolator and programmable relay  
output, red colour, EN54-11, EN54-17,  
EN54-18 CE according to CPD/CPR

#### Accessories



##### PEDM

PLASTIC FRAME for flush mounting MCP



##### VPDM

TRANSPARENT LIFT-UP protective cover for MCP,  
permits a double action (supplied with  
protection label)

#### 05 waterproof MCP

##### DMA05 E

ADDRESSABLE WATERPROOF MANUAL CALL  
POINT - resettable with key  
without breaking glass, integrated  
isolator, red colour, EN54-11, EN54-17, CE  
according to CPD/CPR



##### KCTDM

KIT OF 10 RESET KEYS for 05 MCP

### LOOP SOUNDERS

##### AVSA05/R (AVSA 2000)

ADDRESSABLE HIGH POWERED PIEZOELECTRIC SOUNDER for indoor use (red colour), integrated isolator,  
possibility to select 6 tones, 95db@1m, lateral hearings, loop powered, for HEPHAIS 1600 range .  
Certified EN54-3 according to CPD





## INTERFACE LOOP UNITS



### MAY1

ADDRESSABLE ZONE INTERFACE MODULE with backbox, for max 32 conventional points



### MBA95

ADDRESSABLE ZONE INTERFACE MODULE with backbox, for max 32 conventional points, isolator integrated, opto-isolated on the secondary line, EN54-17, EN54-18, EN54-13 CE according to CPD/CPR



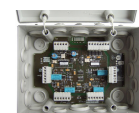
### ETC05-B

ADDRESSABLE INPUT/OUTPUT MODULE with backbox, isolator integrated, NO or NC monitoring for input, relay output NO-NC 30V/1A, EN54-17, EN54-18 CE according to CPD/CPR (exists also in RAIL DIN version)



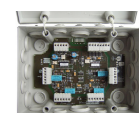
### ET4C05-B

ADDRESSABLE 4 INPUT/OUTPUT MODULE with backbox, isolator integrated, NO or NC monitoring for input, relay output NO-NC 30V/1A, EN54-17, EN54-18 CE according to CPD/CPR



### EDL

ADDRESSABLE 2 MONITORED INPUT + 1 MONITORED LINE OUTPUT permits to manage NO or NC for the monitored inputs and use monitored sounders line for outputs, EN54-17, EN54-18, CE according to CPD/CPR



### ED4L

ADDRESSABLE 8 MONITORED INPUT + 4 MONITORED LINE OUTPUT permits to manage NO or NC for monitored inputs and use monitored sounders line for outputs, EN54-17, EN54-18, CE according to CPD/CPR



### MIMIC B60

DIN RAIL MOUNTING 60 ADDRESSABLE outputs dedicated for Mimic panel leds

## PROGRAMMING, TEST AND MAINTENANCE TOOL



### ECDL 500

Portable tool for commissioning, troubleshooting, and maintenance operations of the addressable loop. It also enables the wiring verification of the conventional lines, delivered in a suitcase with an adapter/charger, a USB cable and a specific cable equipped with crocodiles' clips. It is compatible with the A95, A05, and A12 ranges of addressable devices. Mostly, it is a useful and essential tool to validate your installation before start-up





## ADDRESSABLE GENERAL VIEW

### HEPHAIS RANGE



HEPHAIS 128

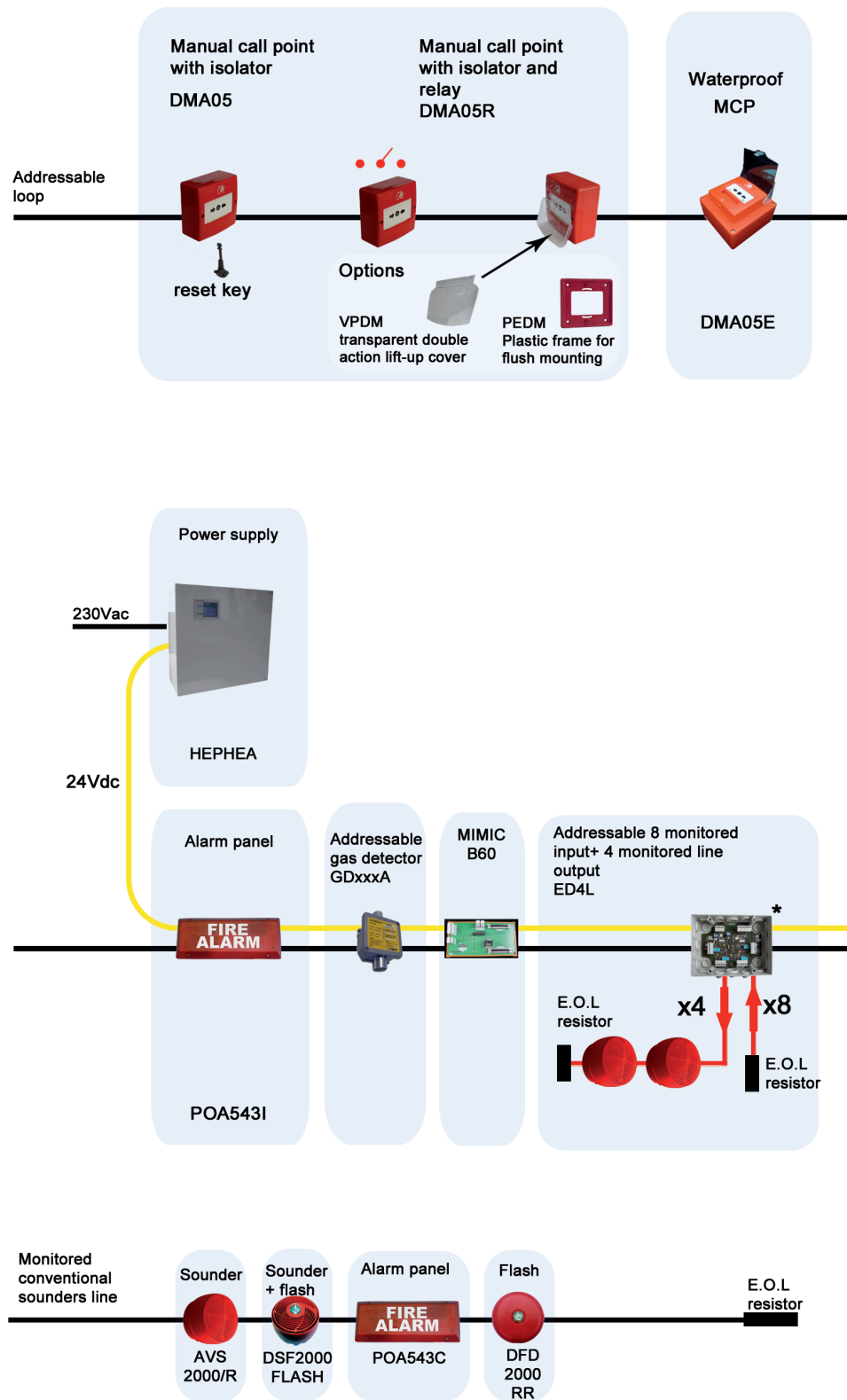


HEPHAIS 1600 NE COMFORT



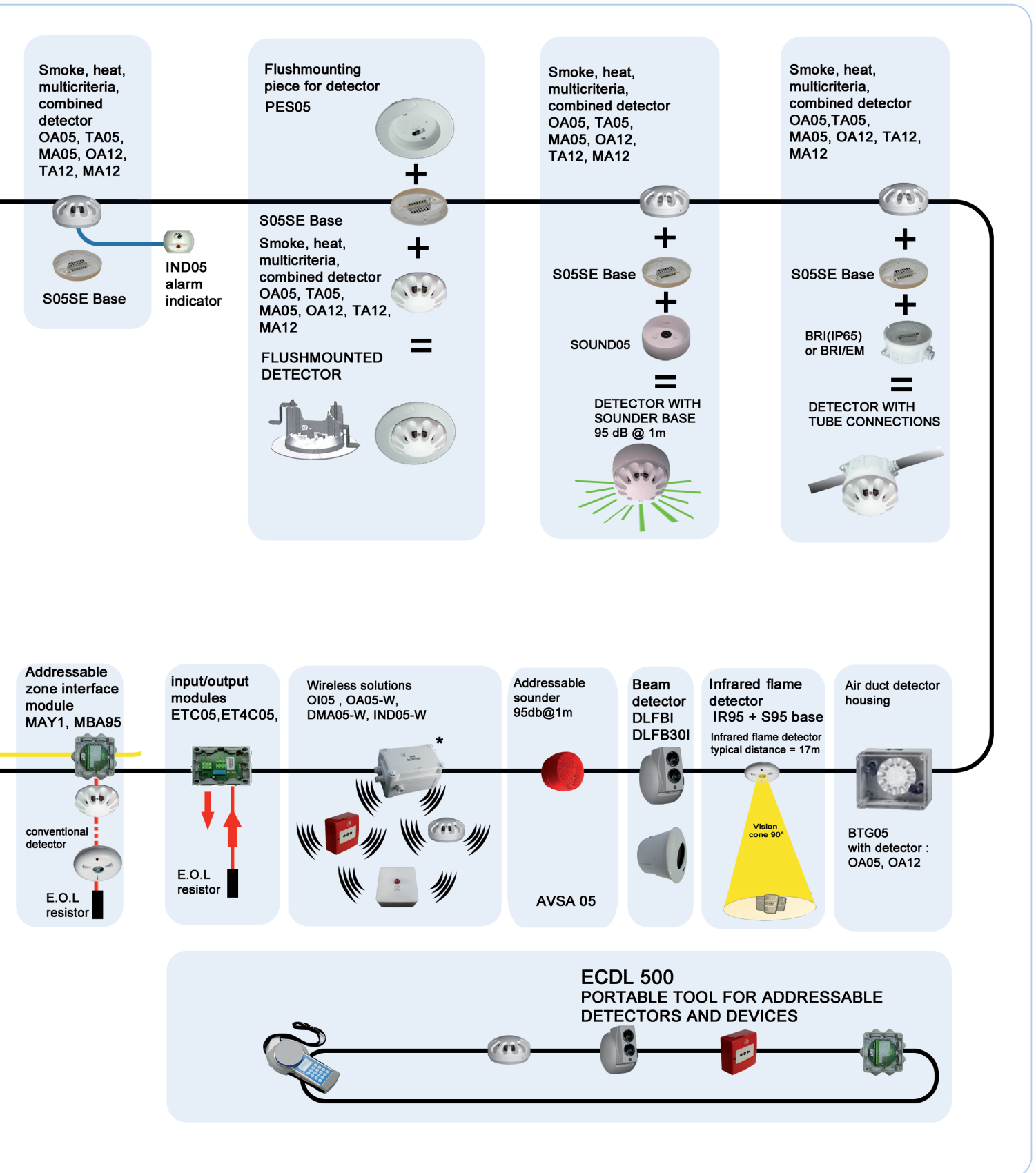
HEPHAIS 1600-400 COMFORT/L

\*Only for HEPHAIS 1600 NE and HEPHAIS 1600





## ADDRESSABLE GENERAL VIEW











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## Accessories



## DLFB30 I

INTELLIGENT INTERACTIVE BEAM  
DETECTOR (loop powered) for linear smoke  
detection supplied with reflector for distance  
from 3 up to 30 meters, integrated isolator,  
integrated laser pointer for alignment,  
EN54-12, EN54-17, CE according to CPD/  
CPR

## DLFB30 R

RELAY BEAM DETECTOR, for linear smoke detection supplied with reflector for distance from 3 up to 30 meters, NO-NC ALARM, NO-NC FAULT, integrated laser pointer for alignment, **EN54-12, CE according to CPD/CPR**

**DETTEL**

REMOTE CONTROL WITH DISPLAY AND KEYPAD  
for DLFB<sub>e</sub> and DLFB<sub>30</sub>, permits to adjust  
the alignment and program the beam



## BEAM-BR

REMOTE BOX FOR BEAM, permits remotely to enable/disable, reset, can be connected with remote control DETTEL, 4 to 5 wires connections to the beam



## BEAM-KIT4CC

SUNSHIELD PROTECT FOR REFLECTOR, supplied for 4 reflectors 10x10 reflectors, permits to protect against sun rays



## BEAM-FMBOX

## FLUSHMOUNTING box for DLFB30

## From 3 to 100m

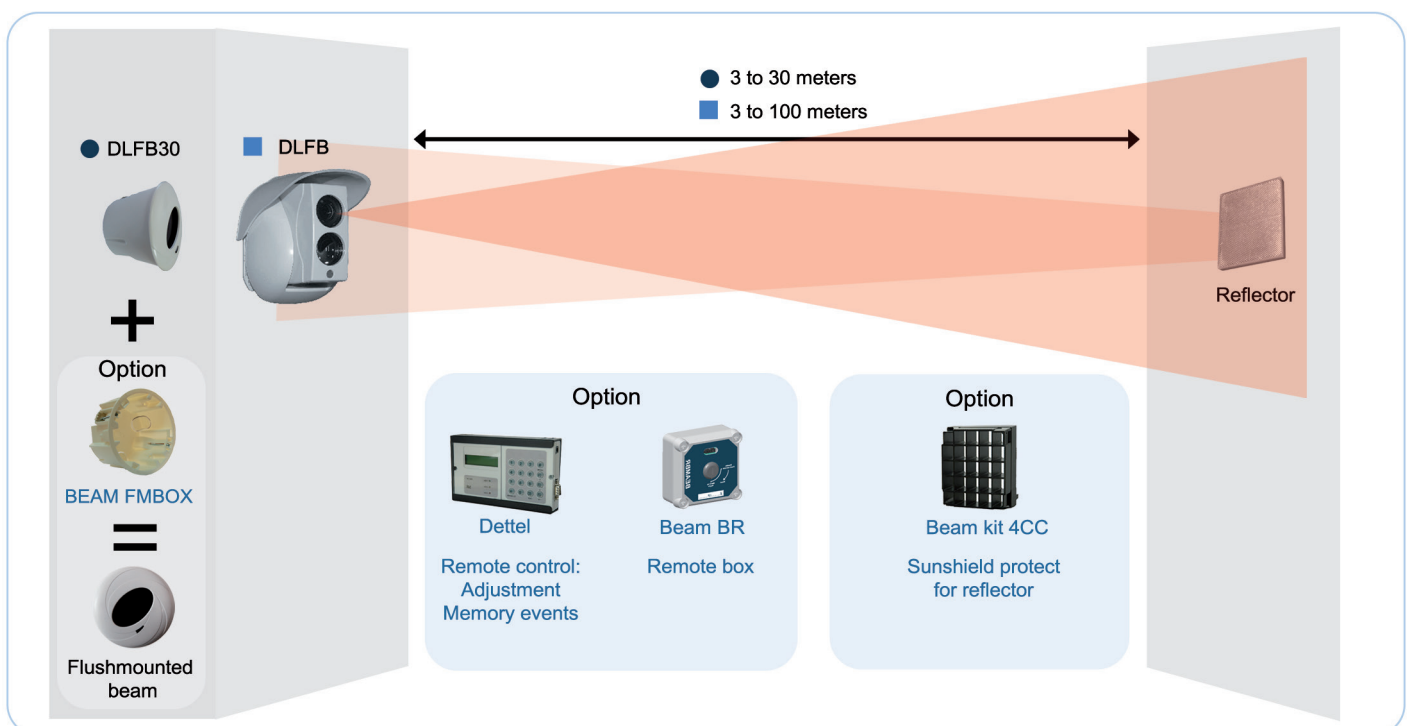


## DLFBe I

INTELLIGENT INTERACTIVE BEAM DETECTOR (loop powered) for linear smoke detection supplied with reflector for distance from 3 up to 100 meters, integrated isolator, visible ray for alignment, **EN54-12, EN54-17, CE according to CPD**. Exists also in conventional version with ALPHA panel, DLFBe C

## DLFBe R

RELAY BEAM DETECTOR, for linear smoke detection supplied with reflector for distance from 3 up to 100 meters, NO-NC ALARM, NO-NC FAULT, visible ray for alignment, **EN54-12, CE according to CPD**





## WIRELESS SOLUTIONS



### OA05-W

WIRELESS OPTICAL SMOKE DETECTOR, 1 remote led output, EN54-7, EN54-25, CE according to CPD/CPR



### DMA05-W

WIRELESS MANUAL CALL POINT, 1 remote led output, EN54-11, EN54-25, CE according to CPD/CPR



### IND05-W

WIRELESS REMOTE INDICATOR, angle of vision = 180°, EN54-18, EN54-25, CE according to CPD/CPR



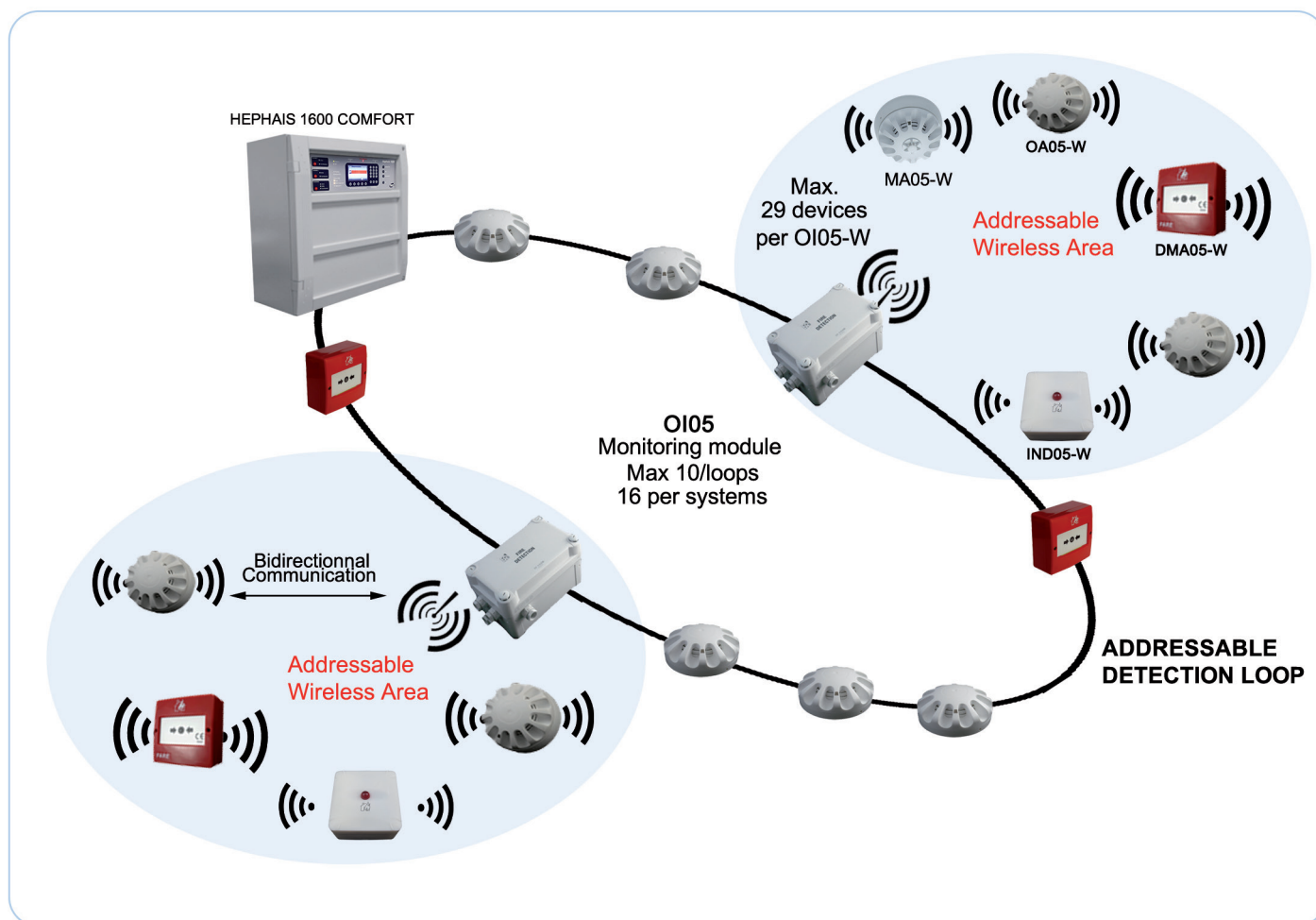
### OI05

MONITORING MODULE can be connected on HEPHAIS 1600 or HEPHAIS 1600NE, 1 remote led output, monitoring device of wireless equipments EN54-17, EN54-18, EN54-25, CE according to CPD/CPR



### TELEWIRELESS

SOFTWARE PROGRAMMING TOOL for WIRELESS SOLUTIONS







## AIR SAMPLING DETECTION

### WITH HIGH SENSITIVITY DETECTORS

#### DFA05-1C-B (DFA05-3)

CONVENTIONAL SINGLE CHANNEL HIGH SENSITIVITY BASE DETECTOR for one sampling tube with smoke level indicator, to be completed with one detector module SSD, EN54-20 CE according to CPD/CPR

#### DFA05-2C-B (DFA05-4)

CONVENTIONAL DUAL CHANNEL HIGH SENSITIVITY BASE DETECTOR, for one or two sampling tubes with smoke level indicator, to be completed with one or two detectors modules SSD, EN54-20 CE according to CPD/CPR



#### DFA05-1C (DFA05-1)

CONVENTIONAL SINGLE CHANNEL HIGH SENSITIVITY BASE DETECTOR, for one sampling tube, to be completed with one detector module SSD, EN54-20 CE according to CPD/CPR

#### DFA05-2C (DFA05-2)

CONVENTIONAL DUAL CHANNEL HIGH SENSITIVITY BASE DETECTOR, for one or two sampling tubes, to be completed with one or two detectors modules SSD, EN54-20, CE according to CPD/CPR

### Detector modules

#### SSD 535-1

HIGH SENSITIVITY SMOKE DETECTOR MODULE with alarm sensitivity range from 0,05%/m to 10%/m to be plugged in DFA05

#### SSD 535-2

HIGH SENSITIVITY SMOKE DETECTOR MODULE with alarm sensitivity range from 0,01%/m to 10%/m to be plugged in DFA05

#### SSD 535-3

HIGH SENSITIVITY SMOKE DETECTOR MODULE with alarm sensitivity range from 0,002%/m to 10%/m to be plugged in DFA05



### Interface modules

#### RIM35

RELAY INTERFACE MODULE with 5 programmable relays, NO-NC 30V/1A to be plugged in DFA05



#### MCM35

SD-1GO MEMORY CARD MODULE to be plugged in DFA05 permits to record operating data and store memory events



#### SMM535

Box for network. Interface between network and computer



#### SIM 35

Plug in board for network. Permits to have RS485 with addressable network between DFA05, up to 250 devices

### PROGRAMMING SOFTWARE FOR DFA05

#### SAMPLING PIPE CONFIG

SYSTEM DESIGN SOFTWARE permits to define the network pipe



#### DFA05 CONFIG

PROGRAMMING SOFTWARE permits to download/upload data configuration through USB cable (not supplied)

### MINI AIR SAMPLING DETECTION for 12 holes max

#### DFA05 Mini-40

CONVENTIONAL SINGLE CHANNEL ASPIRATION DETECTOR

For one sampling tube network with a maximum of 12 sampling holes which includes its own smoke module 0.02%/m to 10%/m. Max length of the last hole = 40m. Total length max of network tubes = 75m. EN54-20, CE marking according to CPD/CPR

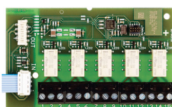


### Interface module

#### RIM36

RELAY INTERFACE MODULE

With 5 programmable relays, NO-NC 30V/1A to be plugged in DFA05 Mini-40





# AIR SAMPLING DETECTION

## FILTERS



### FBS 25PC

Filter Box Small Ø 25 mm, PC

### Filter mat-S

Filter Mat Small for FBS 25 PC



### DFU 911

Filter Box Large Ø 25 mm, PC



### RFC 911

Spare Filter



### DTP 25 PC

Dust box, PC, adapted to all material  
Ø 22 - 25 mm pipe



### DRB 25 PVC

Dust retaining box (cyclone),  
Ø 25 mm PVC



### WRB 25 PVC

Water retaining box, Ø 25 mm, PC/PVC.  
Linking by gland on sampling pipe side and by  
glue on aspirating smoke side



### WRB 25 ABS

Water retaining box Ø 25 mm, PC/ABS.  
Linking by gland on sampling pipe side and by  
glue on aspirating smoke side

### MV 25 ABS

Manual ball valve Ø 25 mm, ABS, for  
maintenance use

## ASPIRATING PIPES



### TU25RF

FIREPROOF AIR SAMPLING PIPE 25mm  
(3m length), red colour (batch of 30)



### EN25RF

FIREPROOF STRAIGHT SOCKET 25mm,  
red colour, (batch of 20)



### TE25RF

FIREPROOF EQUAL TEE PIECE for 25mm  
tube, red colour, (batch of 10)



### T 25/8

FIREPROOF EQUAL TEE PIECE for 8mm  
capillary tube or sample point, red colour,  
(batch of 10)



### TT25RF

FIREPROOF END CAP, for 25mm tube,  
red colour, (batch of 10)



### C90RF

FIREPROOF 90° ELBOW, for 25mm tube,  
red colour, (batch of 5)



### CF70

FLEXIBLE ELBOW for 25mm tube,  
(batch of 4)



### C45RF

FIRE PROOF 45° ELBOW, for 25mm tube,  
red colour, (batch of 5)



### TF.10

Flexible tube 1m length



### TC.8

CAPILLARY TUBE (10mm OD; 8mm ID)  
(100m roll)



### ABR

FIREPROOF PIPE CLIP for 25mm tube,  
red colour, (batch of 50)



### UTRF

FIREPROOF UNION TUBE for 25mm tube, red  
colour, (batch of 10)



### PMTU

SAMPLE POINT 8mm, (batch of 10)



### PMC

CONIC SAMPLE POINT, (batch of 10)



### PMPT

PLATE SAMPLE POINT with nut, (batch of 10)



### PMP

PLATE SAMPLE POINT with screws, (batch of  
10)



### PMC/8

SAMPLE POINT for capillary tube,  
(batch of 10)



### PCM/10

RAISE FOR CLIP, raises for 17mm,  
(batch of 10)



### PRPM

EXTENSION LEAD for sample point,  
(batch of 10)



### TL

WATERPROOF ENDCAP, (batch of 10)

## CONVENTIONAL GAS DETECTORS

### GD100C

CONVENTIONAL METHANE CATALYTIC GAS DETECTOR, CH<sub>4</sub>, IP55, can be directly connected on ALPHA panel, alarm and prealarm resistors integrated, needs external power supply, **with possibility to use 4/20mA output**

### GD101C

CONVENTIONAL BUTANE CATALYTIC GAS DETECTOR, IP55, can be directly connected on ALPHA panel, alarm and prealarm resistors integrated, needs external power supply, **with possibility to use 4/20mA output**

### GD102C

CONVENTIONAL PETROL STEAM CATALYTIC GAS DETECTOR, IP55, can be directly connected on ALPHA panel, alarm and prealarm resistors integrated, needs external power supply, **with possibility to use 4/20mA output**

### GD104C

CONVENTIONAL HYDROGEN CATALYTIC GAS DETECTOR, H<sub>2</sub>, IP55, can be directly connected on ALPHA panel, alarm and prealarm resistors integrated, needs external power supply, **with possibility to use 4/20mA output**

### GD105C

CONVENTIONAL CATALYTIC LIQUID PETROLEUM GAS DETECTOR, LPG, IP55, can be directly connected on ALPHA panel, alarm and prealarm resistors integrated, needs external power supply, **with possibility to use 4/20mA output**

### GD106C

CONVENTIONAL PROPANE CATALYTIC GAS DETECTOR, C<sub>3</sub>H<sub>8</sub>, IP55, can be directly connected on ALPHA panel, alarm and prealarm resistors integrated, needs external power supply, **with possibility to use 4/20mA output**

### GD113C

CONVENTIONAL CARBON MONOXIDE GAS DETECTOR, CO, IP55, ELECTROCHEMICAL CELL, can be directly connected on ALPHA panel, alarm and prealarm resistors integrated, needs external power supply, **with possibility to use 4/20mA output**

## ADDRESSABLE GAS DETECTORS

### GD100A

ADDRESSABLE METHANE CATALYTIC GAS DETECTOR, CH<sub>4</sub>, IP55, can be directly connected on HEPHAIS loops, integrated isolator, needs external power supply

### GD101A

ADDRESSABLE BUTANE CATALYTIC GAS DETECTOR, CH<sub>4</sub>, IP55, can be directly connected on HEPHAIS loops, integrated isolator, needs external power supply

### GD102A

ADDRESSABLE PETROL STEAM CATALYTIC GAS DETECTOR, IP55, can be directly connected on HEPHAIS loops, integrated isolator, needs external power supply

### GD104A

ADDRESSABLE HYDROGEN CATALYTIC GAS DETECTOR, H<sub>2</sub>, IP55, can be directly connected on HEPHAIS loops, integrated isolator, needs external power supply

### GD105A

ADDRESSABLE CATALYTIC LIQUID PETROLEUM GAS DETECTOR, LPG, IP55, can be directly connected on HEPHAIS loops, integrated isolator, needs external power supply

### GD106A

ADDRESSABLE PROPANE CATALYTIC GAS DETECTOR, C<sub>3</sub>H<sub>8</sub>, IP55, can be directly connected on HEPHAIS loops, integrated isolator, needs external power supply

### GD113A

ADDRESSABLE CARBON MONOXIDE GAS DETECTOR, CO, IP55, ELECTROCHEMICAL CELL, can be directly connected on HEPHAIS loops, integrated isolator, needs external power supply







# GAS DETECTION

## Accessories

### MEGAS

METHANE GAS TEST BOTTLE , 40% L.I.E,  
12 liters (to be used with P7150V)

### COGAS

CARBON MONOXIDE GAS TEST BOTTLE,  
250ppm, 12 liters (to be used with P7150V)

### VPGAS

PETROL STEAM GAS TEST BOTTLE, 40% L.I.E,  
12 liters (to be used with P7150V)

### LPGGAS

LPG GAS TEST BOTTLE, 40% L.I.E, 12 liters  
(to be used with P7150V)

### HYGAS

HYDROGEN GAS TEST BOTTLE, 48% L.I.E,  
12 liters (to be used with P7150V)



### GDREL

PLUG-IN 3 RELAY CARD, NO-NC 30V/1A,  
to be plugged inside the detector GDxxxC,  
permits to repeat ALARM, PREALARM, FAULT  
of the detector



### DETTEL

REMOTE CONTROL WITH DISPLAY AND KEYPAD  
for GAS DETECTORS, permits to read and set  
the level and data of detectors (sensitivity,  
thresholds...)



### P7150V

TEST KIT GAS DETECTORS (valve + adapter)



## GD-range GAS DETECTOR Conventional version



+



GDREL\*

Available 3 relays:

Pre Alarm  
Alarm  
Fault



DETTEL

For Settings configuration:

Thresholds  
Filter delays

\* Note that all detectors are equipped with 4/20mA output



# EXPLOSION PROOF GAS DETECTION

## Flammable gas

### SD2243ME

Exd METHANE GAS DETECTOR, 0-100% LEL,  
Ex 2GD Ex d IIC T6 Ex tD A21 IP65 T 85°C

### SD2243VB

Exd PETROL STEAM GAS DETECTOR,  
0-100% LEL, Ex 2GD Ex d IIC T6 Ex tD A21  
IP65 T 85°C

### SD2243BU

Exd BUTANE GAS DETECTOR, 0-100% LEL,  
Ex 2GD Ex d IIC T6 Ex tD A21 IP65 T 85°C

### SD2243PR

Exd PROPANE GAS DETECTOR, 0-100% LEL,  
Ex 2GD Ex d IIC T6 Ex tD A21 IP65 T 85°C

### SD2243GP

Exd LPG GAS DETECTOR, 0-100% LEL,  
Ex 2GD Ex d IIC T6 Ex tD A21 IP65 T 85°C

### SD2243H2

Exd HYDROGEN GAS DETECTOR,  
0-100% LEL, Ex 2GD Ex d IIC T6 Ex tD A21  
IP65, T 85°C

### SD2244AM

Exd AMMONIAC GAS DETECTOR,  
0-100% LEL, Ex 2GD Ex d IIC T6 Ex tD A21  
IP65 T 85°C

## Toxic gas

### SD2245O2

Exd OXYGEN GAS DETECTOR, 0-25% vol, Ex 2GD Ex d IIC T6 IP65

### SD2246AM

Exd AMMONIAC GAS DETECTOR, 0-200 ppm, Ex 2GD Ex d IIC T6  
IP65

### SD2247AM

Exd AMMONIAC GAS DETECTOR, 0-1000 ppm, Ex 2GD Ex d IIC T6  
IP65

## Infrared sensor

### S2651CO2

Exd CARBON DIOXIDE GAS DETECTOR 2% Vol-Ex II 2G G-C2 IR  
IP65

## Accessories

### STS/CKD

Calibration keypad to adjust the detector zero  
and span values

### ZMCAP

Calibration adapter

### STS3REL

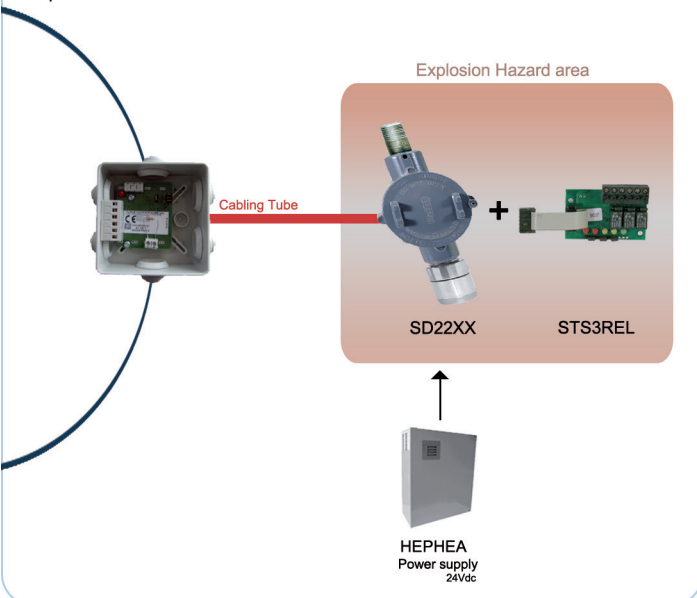
PLUG-IN 3 RELAY CARD, NO-NC 30V/1A , to be  
plugged inside the detector, permits to repeat  
ALARM, PREALARM, FAULT of the detector

### FMGDS

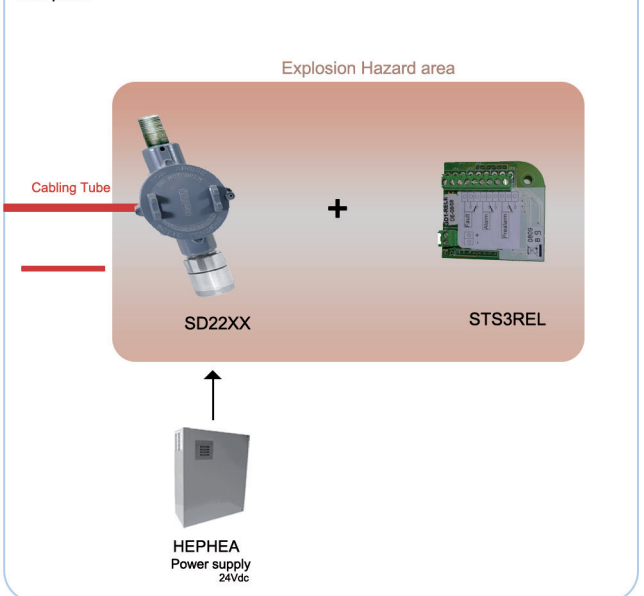
PLUG-IN addressable loop powered module  
for SD Explosion proof gas detectors. Takes 2  
addresses on the loop



Addressable loop  
from panel



Conventional line  
from panel





## DEVICES FOR FIRE EVACUATION

### IND05

REMOTE ALARM INDICATOR  
angle of vision = 180°



### IND05E

WATERPROOF REMOTE ALARM INDICATOR  
angle of vision = 180°

### IAA

REMOTE ALARM INDICATOR for more than one detector



### AVS 2000/R

HIGH POWERED PIEZOELECTRIC SOUNDER for INDOOR use (red colour), possibility to select 6 tones, 95db@1m, lateral hearings, EN54-3, CE according to CPD/CPR, Exists also in white colour (AVS2000/W) (base included)



### AVSU EFP

HIGH POWERED PIEZOELECTRIC SOUNDER for OUTDOOR, 114db@1m, IP65, CE according to CPD/CPR, EN54-3



### DSF 2000-RR

CONVENTIONAL sounder + flash (red flash+red box); 3 different sounds, 97dB, low current consumption, IP21C, EN54-3, EN54-23, CE according to CPD/CPR (exist also in white flash), base included



### DFD 2000-R1-RR

CONVENTIONAL LED FLASH (red flash+red box) for diffusion. 16-58Vdc, EN54-23, CE according to CPD/CPR (exist also in white flash)



### Base 1,5

Base for DFD2000 (exist also in white)



### 8500x

COMBINED SOUNDER AND FLASH for OUTDOOR WALL MOUNTED (red colour), IP66, 100db@1m, EN54-3 according to CPD



### 531024-1019

XENON OUTDOOR BEACON high luminosity with 360° angle, from 9Vdc to 60Vcc, IP65

### POA543-C

CONVENTIONAL OPTICAL ACOUSTIC ALARM PANEL WITH BUZZER lighting with high luminosity LED, low current consumption, 12V/24Vds, buzzer 94db@1m, IP55, CE according to CPD/CPR, EN54-3



### POA543-I

ADRESSABLE OPTICAL ACOUSTIC ALARM PANEL WITH BUZZER lighting with high luminosity LED, low current consumption, 12V/24Vds, buzzer 94db@1m, IP55, CE according to CPD/CPR, EN54-3, EN54-17

### P7540

IP65 kit dedicated to POA543 panels



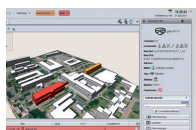


## 3D MONITORING SOFTWARE

For 1 PANEL HEPHAIS 1600 or HEPHAIS 1600 NE and max 400 addresses

### SD3 MAPSVIEW NE (400 addresses)

3 DIMENSION BASE REMOTE MAP MONITORING SOFTWARE FOR MAX 400 addresses, compatible with HEPHAIS 1600 panels range. MAX 400 ADDRESSES MANAGED, NOT EXPANDABLE. Fully high level software (mails, CSV memory event, webaccess, statistics, autocad file import) including auto download sincronisation with the HEPHAIS 1600 panel. TCP/IP management included (needs converted)



### SD3 MAPSVIEW NE MUL PC

MULTI PC integrating 1 station (Total 2 stations), 3 DIMENSION BASE REMOTE MAP MONITORING SOFTWARE FOR MAX 400 addresses, compatible with HEPHAIS 1600 panels range. MAX 400 ADDRESSES MANAGED, NOT EXPANDABLE. Fully high level software (mails, CSV memory event, webaccess, statistics, autocad file import) including auto download sincronisation with the HEPHAIS 1600 panel. TCP/IP management included (needs converter)

For 1 PANEL HEPHAIS 1600 or HEPHAIS 1600 NE and illimited addresses

### SD3 MAPSVIEW

3 DIMENSION BASE REMOTE MAP MONITORING SOFTWARE FOR 1 complete PANEL compatible with HEPHAIS 1600 panels range. Possibility to be expanded. Fully high level software (mails, CSV memory event, webaccess, statistics, autocad file import) including auto download sincronisation with the HEPHAIS 1600 panel. TCP/IP management included. (needs converted)



### SD3 MAPSVIEW MUL PC

MULTI PC integrating 1 station (Total 2 stations), 3 DIMENSION BASE REMOTE MAP MONITORING SOFTWARE FOR 1 complete PANEL, compatible with HEPHAIS 1600 panels range. Possibility to be expanded. Fully high level software (mails, CSV memory event, webaccess, statistics, autocad file import) including auto download sincronisation with the HEPHAIS 1600 panel. TCP/IP management included (needs converter)

### SD3 MAPSVIEW PLUS

ADDITIONAL LICENSE for 1 panel management, compatible with addressable HEPHAIS 1600 panels and dedicated only for SD3 MAPSVIEW or SD3 MAPSVIEW NE

## Options for SD3 MAPSVIEW and SD3 MAPSVIEW NE

### SD3 MAPSVIEW PLUS PC

ADDITIONAL LICENSE for 1 PC management, dedicated only for SD3 MAPSVIEW MUL PC or SD3 MAPSVIEW NE MUL PC

### SD3 MAPSVIEW BUILD

License for building plans on SD3 MAPSVIEW

## OPC Server

### SD3OPC

OPC server for integrating equipment and application into SD3 system

## CONVERTERS

### Serial converter

#### MA53

CONVERTER MODULE RS232/RS422 with power supply

#### MB3180

Converter Serial MODBUS/TCP. RS-232, RS-422, 4-wire RS-485, and 2-wire RS-485 TO TCP/IP CONVERTER MODULE with power supply. The DE-311 supports 10/100 Mbps Ethernet connections and has a DB9 female connector for the serial port



### Optic fiber converter

#### CONCUFI

CONVERTER MODULE RS422/RS485/RS232 to MULTIMODE optic fiber max distance 6km, rail din enclosure, 7Vdc to 60Vdc power

#### CONCUFI SMODE

CONVERTER MODULE RS422/RS485/RS232 to SINGLE MODE optic fiber max distance 25km, rail din enclosure, 7Vdc to 60Vdc power



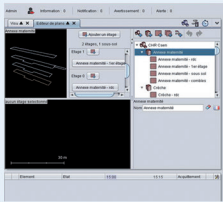


# MONITORING SOFTWARE

3D online navigation



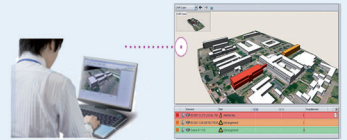
3D site modelisation



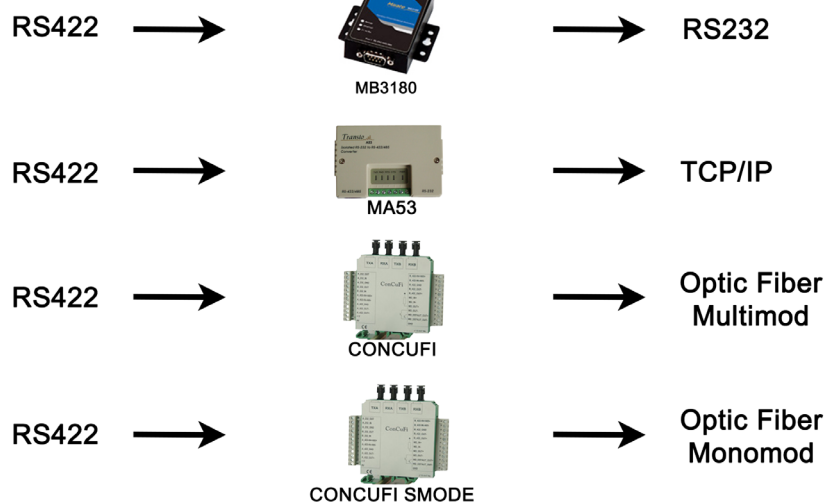
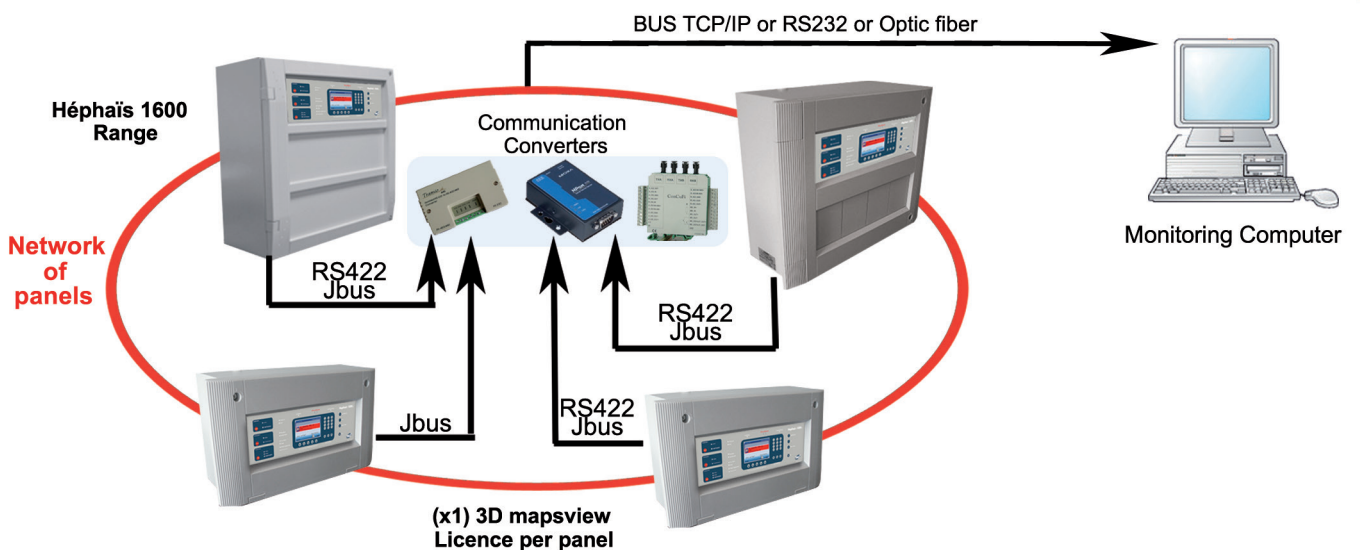
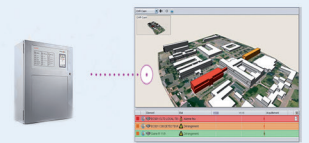
AUTOCAD files import



Real-time synchronisation  
Edit your database while  
you supervise your site



Real-time synchronisation  
with the panel database





# EXPLOSION HAZARD AREA FIRE DETECTION

## Fire alarm devices



### VIREX + SVEX

CONVENTIONAL INFRARED FLAME DETECTOR  
Ex version, ATEX II 1G Eex ia IIC T6, EN54-10, CE  
according to CPD/CPR, + base SVEX



### OC05EX

CONVENTIONAL OPTICAL SMOKE DETECTOR  
Ex version, ATEX II 1G Eex ia IIC T6 EN54-7, CE  
according to CPD/CPR



### TRC05EX

CONVENTIONAL RATE OF RISE + FIXED HEAT  
DETECTOR, Ex version, ATEX II 1G Eex ia IIC  
T6, EN54-5, CE according to CPD/CPR



### S05EX

MOUNTING BASE- anti-static design Ex version



### DMC05EX

TDMC05EX(front MCP) + FBBG2EX-R (Back box  
MCP), CONVENTIONAL MANUAL CALL POINT with  
reset key, Ex version, certified  
ATEX 94/9/CE, CE certified, EN60079-0,  
EN60079-11



### ISMA 1

INTRINSICALLY SAFE SOUNDER which produces a loud  
warning signal in a hazardous area and in all gas  
groups IIA IIB and IIC. To be used with SBEW BZ3.



### SBEX BZ1

SAFETY BARRIER dedicated for intrinsically safe  
detectors and call points



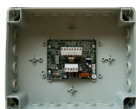
### SBEX BZ2

SAFETY BARRIER dedicated for intrinsically safe  
detectors and call points, **opto-isolated**.  
To be supplied when the ex detectors are  
not connected to SD<sup>3</sup> panels

### SBEX BZ3

SAFETY BARRIER dedicated exclusively for  
intrinsically safe sounders

## Addressable Ex interface



### MBA95Ex

ADDRESSABLE ZONE INTRINSICALLY INTERFACE MODULE with backbox, for max 10 conventional EEX points, isolator  
integrated, opto-isolated on the secondary line, EN54-17, EN54-18, CE according to CPD/CPR

## Conventional Ex interface



### ALPHA 4/8/12

12 ZONES FIRE DETECTION CONVENTIONAL  
PANEL equipped with 4 zones (max 12 zones)  
- max 32 detectors and/or MCP per line.  
Alarm/fault relays, 1 monitored sounders line,  
4 programmable open collectors,  
1 programmable input. Alarm prealarm  
management + Day night mode. Expandable  
panel with availability of 2 rooms for one or two  
4 zones expansion board (EX4A4 or EX4A4EX) or  
one or two Extinguishing boards (DEAG). EN54-  
2, EN54-4 AFNOR, BOSEC, CE according to  
CPD/CPR, EN12094-1 with extinguishing board  
(DEAG). Needs 2 batteries 12V/7Ah. Exists also in  
110VAC version



### EX4A4ex

4 ZONES EXPANSION BOARD Ex VERSION to be  
used with explosion hazard area detectors, max  
10 detectors per line, 1 or 2 EX4A4ex boards can  
be plugged in ALPHA 4/8/12



### REP4R

4 WAYS RELAY CARD, NO-NC 30V/1A, to be  
plugged inside the panel, connection by wires  
with programmable open collectors of  
ALPHA 4/8/12



### R12P2

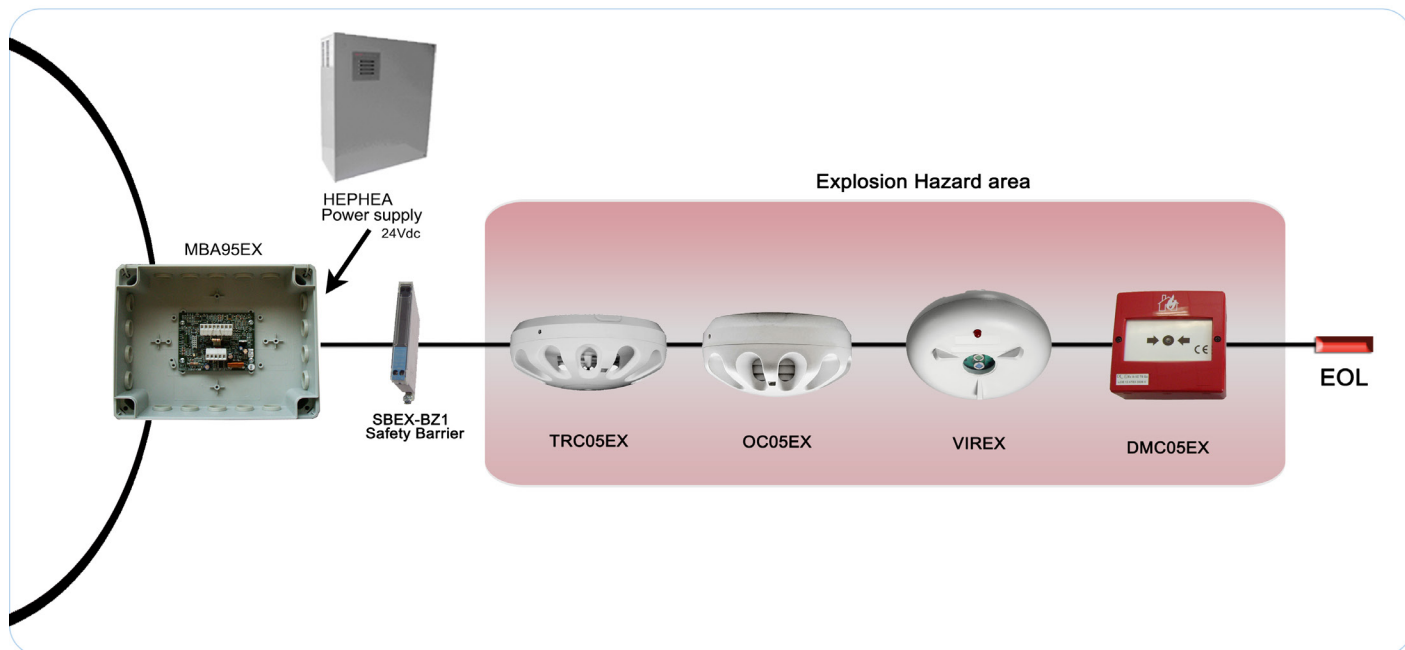
12 WAYS RELAY CARD, NO-NC 30V/1A, to  
be plugged inside ALPHA 4/8/12 panel, serial  
communication, permits to repeat states of the  
panel on 12 relays



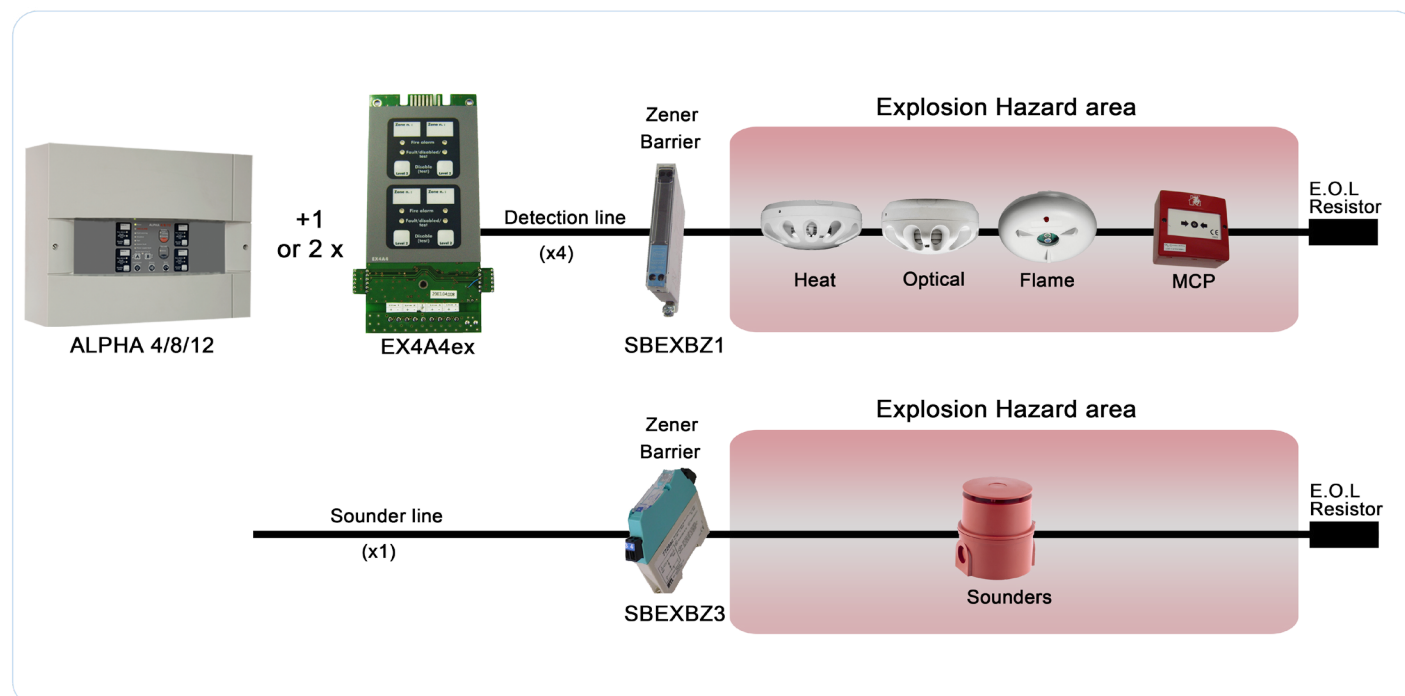


# EXPLOSION HAZARD AREA FIRE DETECTION

## Addressable Ex interface



## Conventional Ex interface



## Explosion proof beam detector



### DLFB30 R EX

EXPLOSION PROOF RELAY BEAM DETECTOR, for linear smoke detection supplied with reflector for distance from 3 up to 30 meters, NO-NC ALARM, NO-NC FAULT, integrated laser pointer for alignment, EN54-12, CE according to CPD/CPR, Ex II 2 G Ex d IIC T6, II 2 D Ex td A21 IP66 T85°C

## EXTINGUISHING SYSTEMS

### ALPHA 4/8/12



12 ZONES FIRE DETECTION CONVENTIONAL PANEL equipped with 4 zones (max 12 zones) - max 32 detectors and/or MCP per line. Alarm/fault relays, 1 monitored sounders line, 4 programmable open collectors, 1 programmable input. Alarm prealarm/management + Day night mode. Expandable panel with availability of 2 rooms for one or two 4 zones expansion board (EX4A4) or one or two Extinguishing boards (DEAG). **EN54-2, EN54-4 AFNOR, BOSEC, CE according to CPD/CPR, EN12094-1** with extinguishing board (DEAG). Needs 2 batteries 12V/7Ah. Exists also in 110VAC version

### Options

#### DEAG



1 ZONE EXTINGUISHING EXPANSION BOARD, to be used for management of 1 extinguishing channel. All monitored lines : Extinguishing actuators, Evacuation panels, Release button, Abort button, Low pressure contact. This board permits to convert ALPHA 4/8/12 panel in a detection extinguishing panel. **CE CPD, EN12094-1**

#### R4P2



4 WAYS RELAY CARD, NO-NC 30V/1A, to be plugged inside the panel, **serial communication**, permits to repeat states of the panel on 4 relays

#### R12P2



12 WAYS RELAY CARD, NO-NC 30V/1A, to be plugged inside ALPHA 4/8/12 panel, **serial communication**, permits to repeat states of the panel on 12 relays

### Accessories

#### 62116014

Selector valve (DN50)

#### 62116012

Selector valve CE 350 bars 1"1/4 (DN32)

#### 62116013

Selector valve CE 350 bars 1"1/2 (DN40)

#### 62116011

Selector valve CE 350 bars 1" (DN25)



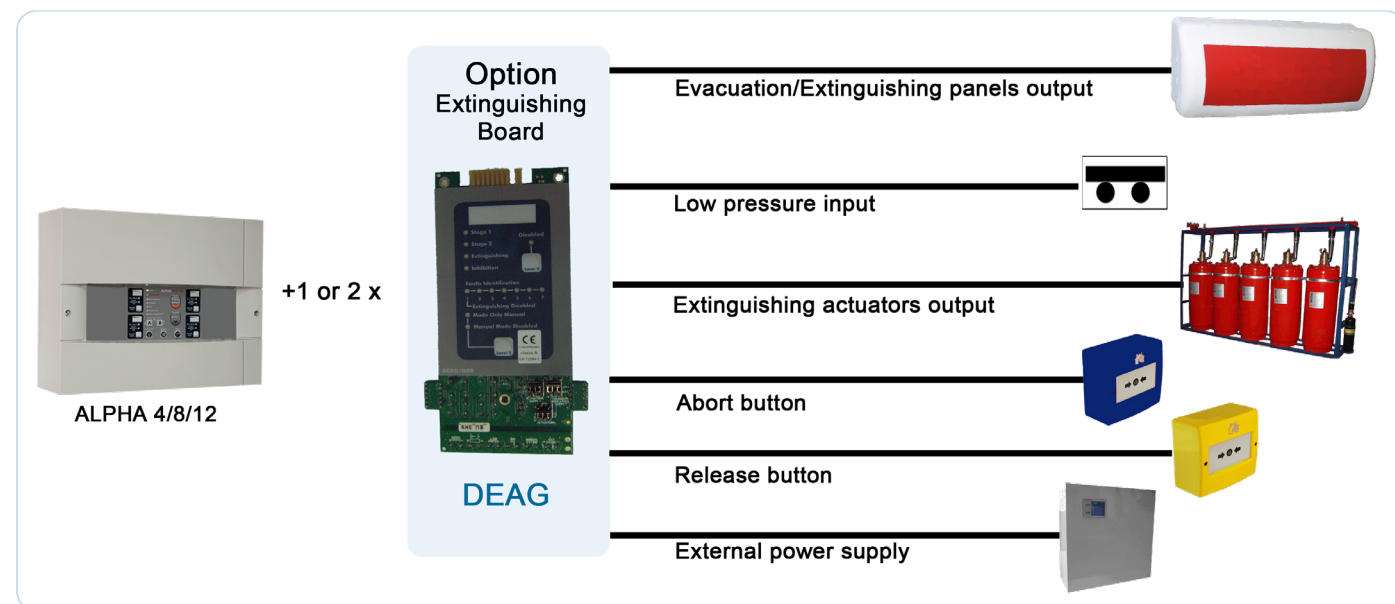
#### 6050324N

Pneumatic siren



#### BS36015

Silent nozzle 360° 1/2FG





## CONVENTIONAL PANEL

### ALPHA 4/8/12 - M



12 ZONES FIRE DETECTION CONVENTIONAL PANEL equipped with 4 zones (max 12 zones) - max 32 detectors and/or MCP per line. Alarm/fault relays, 1 monitored sounders line, 4 programmable open collectors, 1 programmable input. Alarm prealarm/management + Day night mode. Expandable panel with availability of 2 rooms for one or two 4 zones expansion board (EX4A4) or one or two Extinguishing boards (DEAG). **EN54-2, EN54-4 AFNOR, BOSEC, CE CPD, EN12094-1** with extinguishing board (DEAG). **CE Med marine Bureau Veritas approved.** Needs 2 batteries 12V/7Ah

## CONVENTIONAL DETECTORS AND MCP



### OC05-M

CONVENTIONAL OPTICAL SMOKE DETECTOR,  
1 remote led output, EN54-7, CE according to CPD, **CE Med marine Bureau Veritas approved**



### TRC05-M

CONVENTIONAL RATE OF RISE + FIXED HEAT DETECTOR,  
T° = 62°C, +9°C/min, 1 remote led output, EN54-5, CE according to CPD, **CE Med marine Bureau Veritas approved**



### TSC05-A1S-M

CONVENTIONAL FIXED HEAT DETECTOR  
T° = 62°C, 1 remote led output, EN54-5, CE according to CPD, **CE Med marine Bureau Veritas approved**



### DMCL05-M

MANUAL CALL POINT  
resettable with key without breaking glass, red colour,  
**EN54-11, CE Med marine Bureau Veritas approved**



### IRY2+S95-M

CONVENTIONAL INFRARED FLAME DETECTOR,  
1 remote led output, vision cone  $\pm 45^\circ$ , Distance max 25m, EN54-10 class 1 and 2, CE according to CPD, **CE Med marine Bureau Veritas approved**, base included

## Bases



### BRI+S05SE

WATERPROOF universal base with glands for 05 range (IP65), base with tubes connections supplied with glands



### S05SE

UNIVERSAL BASE WITH STICK ADDRESS SOCKET for 05-range conventional and addressable detectors





## ACCESSORIES FOR FIRE ALARM SYSTEM

### MAGNET



#### VTR0241210

ELECTROMAGNETIC DOOR release unit in metal case, 50daN, 24V



#### V7RSSOL

Floor support for magnet VTR0241210 (option)

### CONVERTER



#### RT/B

Converter Module 24Vdc to 12 Vdc.



#### USB/232

CONVERTER MODULE USB/232



## HEPHEA RANGE POWER SUPPLY



#### PSUC224S

Wall mounting 24Vdc safety power supply unit, 2,5A version.

Delivered in metallic enclosure able to house batteries with capacity up to 17Ah. (Also available in rack version)



#### PSUC524S

Wall mounting, 24Vdc safety power supply unit, 2,5A version.

Delivered in metallic enclosure able to house batteries with capacity up to 17Ah. (Also available in rack version)



#### PSUC54M

Wall mounting, 24Vdc safety power supply unit, 2,5A version.

Delivered in metallic enclosure able to house batteries with capacity up to 17Ah. (Also available in rack version)



#### HEPHEA 248B

Power supply box designed to be appropriate for the use as a power unit with a reserve of energy for the supply of a fire detection installation in accordance with the Directive of the Products of

Construction CPD 89/106/CEE. The electric and mechanical realization of these products is in conformity with the EN standards 54-4:1997 + A1:2002 + A2:2006, EN12101-10 and EN60950-1:2001.

### RACK VERSION



#### HEPHEA 248B/R

Power supply box in RACK version designed to be appropriate for the use as a power unit with a reserve of energy for the supply of a fire detection installation in accordance with the Directive of the Products of

Construction CPD 89/106/CEE. The electric and mechanical realization of these products is in conformity with the EN standards 54-4:1997 + A1:2002 + A2:2006, EN12101-10 and EN60950-1:2001.



# VOICE EVACUATION SYSTEMS

## COMPACT PANEL - 1 Zone - 2x12 speakers



### SEV4

VOICE EVACUATION CENTRAL PANEL, manages 2 speakers monitored lines with max 12 speakers per line, connected to monitored sounder line or relay contact, needs 230Vac main supply . Metallic box. **Certified EN54-16 CE according to CPD/CPR**

## SPEAKERS



### VES2

Flush mounted ceiling speaker, 1,5W, max 100m<sup>2</sup>, EN54-24, CE according to CPD/CPR



### SAFE2

Wall speaker, 1,5W, max 200m<sup>2</sup>, EN54-24, CE according to CPD/CPR



### RB

Sound projector speaker, 2,5W, outside under ceiling, EN54-24, CE according to CPD/CPR

### LBC

Sound projector speaker, 6W, outside IP65, EN54-24, CE according to CPD/CPR

## Amplifier and Microphone



### KITMICRO

Microphone console supplied with Din cable + amplifier board accessories



### PR1106

Preamplifier, 6 outputs, with 4 universal inputs Micro/Aux

## COMPACT PANEL- 4 broadcasting zones- 1 alarm zone up to 400W

### VULCAVOICE 1L

Stand alone VACIE, EN54-16 and EN54-4 certified, CE according to CPD/CPR. 2 AUX inputs, 1 microphone, 1 message data base, 1 loudspeaker lines, 300W Max, Integrated UPS

### VULCAVOICE 2L

Stand alone VACIE, EN54-16 and EN54-4 certified, CE according to CPD/CPR, 2 AUX inputs, 1 microphone, 1 message data base, 2 loudspeaker lines, 400W Max, Integrated UPS

### VULCAVOICE 3L

Stand alone VACIE, EN54-16 and EN54-4 certified, CE according to CPD/CPR. 2 AUX inputs, 1 microphone, 1 message data base, 3 loudspeaker lines, 400W Max, Integrated UPS

### VULCAVOICE 4L

Stand alone VACIE, EN54-16 and EN54-4 certified? CE according to CPD/CPR. 2 AUX inputs, 1 microphone, 1 message data base, 4 loudspeaker lines, 400W Max, Integrated UPS



## SPEAKERS



### RB-6501-EN54

Ceiling Loudspeaker 100V-10W EN54-24, CE according to CPD/CPR



### KM180T-EN5424

Hanging loudspeaker (small) - 10W - 100V - 92dBmax/1W/1m - EN54-24, CE according to CPD/CPR



### VOICE15T-EN5424

Horn loudspeaker 15W - 100V - 110dBmax/1W/1m - EN54-24, CE according to CPD/CPR



### ZR-1110

100V volume controller - 10W - level restoration relay

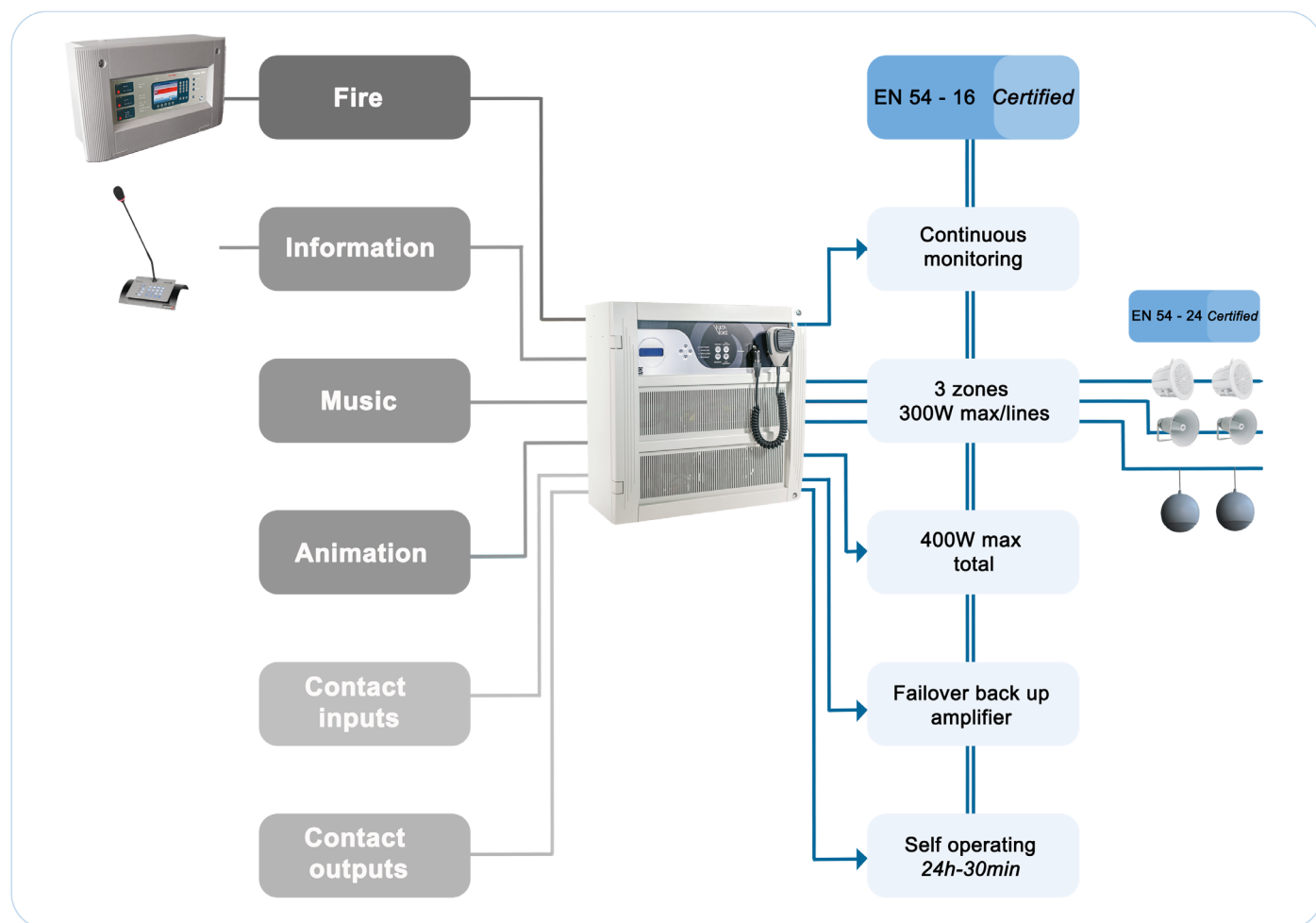
## Microphone



### GX3016

1-16 zones + all microphone console - daisy chain connection 24Vdc - RS 485 bus

# VOICE EVACUATION SYSTEMS



# ELECTRIC LOCK FOR EMERGENCY EXIT DOORS



## DS3000

ELECTRIC LOCK FOR EMERGENCY exit doors with one leaf

## 9055469

Holds in PVC of 25mm for DS3000



## CLEVA2-CLE

LOCAL COMMAND of evacuation with key including delay of closing



## BBG-V

Green Manual Call point with reset key





## FIRE ALARM CABLE

### SAS0210HFEEH-F3FG4

2x1,00 mm<sup>2</sup> cable, twisted with screen, polyvinylchloride rated, flame retardant, (rolls by 200m), EN50200



### SAS0215HFEEH-F3FG4

2x1,5 mm<sup>2</sup> cable, twisted with screen, polyvinylchloride rated, flame retardant, (rolls by 200m), EN50200

### SAS0225HFEEH-F3FG4

2x2,5 mm<sup>2</sup> cable, twisted with screen, polyvinylchloride rated, flame retardant, (rolls by 200m), EN50200



## MAINTENANCE AND TEST EQUIPMENT

### Cleaning tool



#### CLEANING TOOL

Tool kit dedicated to the maintenance of optical sensors

### Test flame detector tool



#### BT-DF

Tool Tester with battery charger for flame detectors IR and UV

### Test and mounting tools



#### 3010

Smoke detector tester



#### 3015

Aerosol bottle of 250 ml (pack of 12)



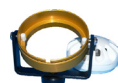
#### 3053

Heat detector tester (head and 12V controller)



#### 3059

12V charger



#### 4065

05 removal tool



#### 4051

95 removal tool

### Telescopic access



#### 2001

Telescopic access pole 2x1.50m

#### 2002

Telescopic access pole 2x2.00m

### Accessories

#### 1001

1.00m extension

#### 1004

1.50m extension

#### 1005

2.00m extension



## MAINTENANCE AND TEST EQUIPMENT

### SPARE PARTS

#### Alpha 2

##### AL2BOARD

ALPHA 2 MOTHER BOARD

#### Alpha 4/8/12

##### AR4D

ALPHA 4/8/12 MOTHER BOARD

#### Hephais 128

##### MP128

HEPHAIS 128 MOTHER BOARD

#### Hephais 1600

##### RF H 1600

USER INTERFACE FRONT PANEL with alphanumeric display 160 characters and keyboard, 19 inches, 3U

##### MB2B

Panel's main cpu board

#### Hephais 1600 NE

##### RF H 1600

USER INTERFACE FRONT PANEL with alphanumeric display 160 characters and keyboard, 19 inches, 3U

##### MB2B NE

Panel's main CPU board

##### ALBA150

Power supply for hephais 1600

### Head sensor gas detectors

##### W4187

HEAD GAS SENSOR for METHANE GAS DETECTOR GD100C or GD100A

##### W4186

HEAD GAS SENSOR for CO GAS DETECTOR GD103C or GD103A

##### W4188

HEAD GAS SENSOR for PETROL STEAM GAS DETECTOR GD102C or GD102A

##### W4189

HEAD GAS SENSOR for LIQUID PROPANE GAS DETECTOR LPG GD105C, GD106C or GD105A, GD106A

##### W4280

HEAD GAS SENSOR for CO GAS DETECTOR GD113C or GD113A

### Alpha 500/1000

##### CPUB

CPU board for alpha 500/1000

##### ALBA

POWER supply for ALPHA 500/1000

##### MD1B05

Extension module for 4 spur circuits (max 32 points per circuit) or 2 loops (max 125 points), for 05 intelligent detectors range

##### MD1B

Extension module for 4 spur circuits (max 32 points per circuit) or 2 loops (max 125 points)

##### ESAL D 3U

User interface panel with alphanumeric display 160 characters and keyboard, rack mount version 19", for ALPHA 500/1000

### 95 serie detectors

##### OA95

Analogue/addressable optical smoke detector, EN54-7

##### TVA95

Analogue/addressable rate of rise + fixed heat detector, EN54-5, EN54-9

##### TPA95

Analogue/addressable fixed heat detector, EN54-5, EN54-9

##### OTA95

Analogue/addressable multicriteria (optical-heat) detector EN54-7, EN54-9

##### S95

Universal base for conventional and analogue detectors

##### W4088

HEAD GAS SENSOR for HYDROGENE GAS DETECTOR GD104C or GD104A

##### W4316

HEAD GAS SENSOR for HYDROGENE GAS DETECTOR catalytic GD104C-CT or GD104A-CT

##### W4315-CH4

HEAD GAS SENSOR for METHANE GAS DETECTOR catalytic GD100C-CT or GD100A-CT

##### W4315-VB

HEAD GAS SENSOR for PETROL STEAM GAS DETECTOR catalytic GD102C-CT or GD102A-CT

##### W4315-C3H8

HEAD GAS SENSOR for LIQUID PROPANE GAS DETECTOR LPG catalytic GD105C-CT, GD106C-CT or GD105A-CT, GD106A-CT

##### W4315-C4H10

HEAD GAS SENSOR for BUTHANE GAS DETECTOR catalytic GD101C-CT or GD101A-CT



## NOTE

Handwriting practice area with 20 horizontal dotted lines.





A world of fire detection equipment



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ZA du moulin de Massy  
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Company network of fire safety experts  
**www.def-network.com**