



HEPHAIS 1600 NE

Interactive fire detection control panel

- **Maximum 400 addresses on 2 loops**
- **Configuration possible in 4 lines**
- **Remote control front panel optional**
- **EN54-2, EN54-4**
- **CE Certified according to CPD**

HEPHAIS 1600 NE is a control and indicating equipment (CIE) with zone and point address localization using microprocessor-based technology. It is designed to meet the requirements of standards **EN54-2** and **EN54-4**.

HEPHAIS 1600 NE is an **interactive-addressable** panel and it can manage up to **400 devices** on **2 loops** of detection or 128 addresses on 4 lines.

The panel is made of a basis CPU board and control front panel. Optional remote front panel, relay module boards and sounder line splitter are also available.

With its new functionalities, **HEPHAIS 1600 NE** provides a **flexible solution for all Fire Detection Systems (FDS)**.

HEPHAIS 1600 NE is reliable and easy to use equipment. Associated to **interactive 05 detectors range**, It is adapted to all types of required topologies and can manage up to **400 detectors or manual call points**, that can be equipped of short-circuit isolator.

Adapted to a large scale of application, **HEPHAIS 1600 NE** can answer to requirements of buildings like hotels, retiring houses, schools, but also small industries and manufactures, storage houses, office buildings, back office centres, thanks to its various and numerous outputs allowing many signalling and command orders.

Field configuration, scheduled sensitivity and the manual setting constitute very useful start up modes which make **HEPHAIS 1600 NE** installation a quick and sure operation.

The software **TELEHEPHAIS1600** (download data) allows to configure advanced functionalities and exploit all the capacities of the panel up to **1000 zones and 256 command groups**.



Main characteristics

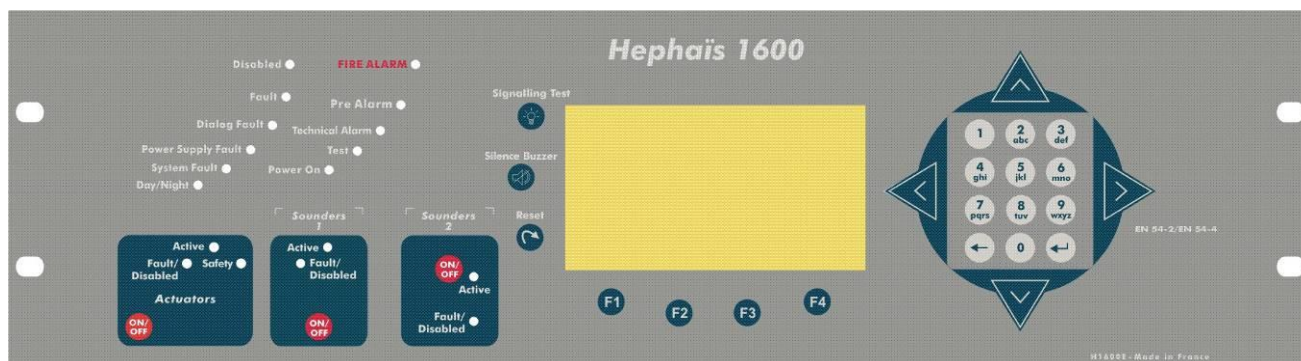
- 400 addressable devices
- 1000 zones, 256 groups of command
- Base: 2 loops (200 addr./ loop) or 4 open circuits (32 det./line)
- 2 programmable inputs / 2 programmable outputs on the CPU board
- 2 programmable inputs on the front board
- Jbus protocol for remote monitoring software
- Detectors management (day/night, scheduled sensitivity, pre-alarm, alarm confirmation)
- Addressable sounders management
- Manual/automatic management of monitored sounders line
- Download software
- Actuators function (activation/deactivation command groups)



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Electrical specification	
Mains supply voltage	230Vac (-15%,+10%), 50Hz or 60Hz
Operating voltage	26,4V to 29 Vdc
Wiring	2 x (0,6 to 1,5) mm² max, shielded / Length = 1500m max
Batteries	2 x 12V/7Ah
Autonomy without mains	1 hours in alarm (command)
Autonomy for data storage out of voltage	> 7 days
Data storage	Non volatile memory (Eeprom)
Maximum current supplied	5 A
Mechanical characteristics	
Dimensions (mm) / weight (without batteries)	320 x 610 x 175 (h x w d) / 5Kg (without batteries)
Material/colour	ABS 5V/RAL 7035
Climatic characteristics	
Operating temperature / Storage temperature	-10°C to 50°C
Operating relative humidity / Storage relative humidity	≤ 93% R.H./ ≤ 80% R.H.
Inputs/outputs	
Base: Max number of points / Max number of zones	400 points/1000 zones
Base: Fire detection lines	2 loops or 4 open lines
Fire alarm management	Alarm, pre alarm, alarm confirmation, hours management day/night mode
Memory events	Up to 2700 events with date and hours
Programmable outputs (fire alarm, fault, test zone, disabled point...)	3 x free contact relay outputs 50V/0,3A
Programmable inputs (power. supply fault, reset, sounders activation...)	2 x monitored inputs for external event management (fault, reset...) 2 x monitored inputs on front panel
Serial communication ports	RS232 communication port programming with PC RS422 communication port for Jbus protocol for graphic monitoring On front panel RS232 for external printer 2 x RS485 communication port for remote front panel (redundant communication)
Sounders line	2 x monitored outputs 30V/1A (for the 2 lines)
External power supply output	1 x 24V/0,5A
Internal options	
C20R, 20 way programmable relays board	NO/NC contacts potential free or resistive 50V/0,3A
R7P2, 7 way programmable relays board	NO/NC contacts potential free or resistive 50V/0,3A
R12P2, 12 way programmable relays board	NO/NC contacts potential free or resistive 50V/0,3A
External options	
ALPHA RE remote control and indicating panel	Serial connection (from 1 to 20 panels)





HEPHAIS 1600 NE

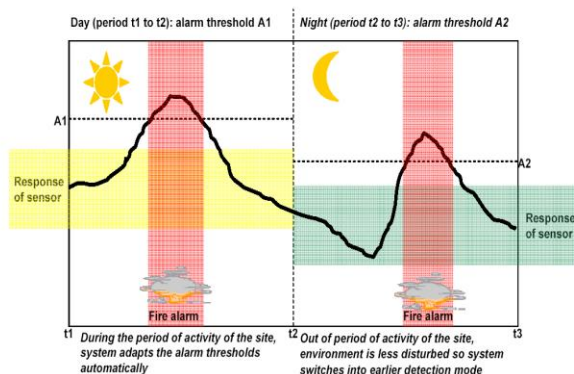
Interactive fire detection control panel

INTERACTIVE MANAGEMENT

DAY/NIGHT MODE

→ Detection criteria programming according to site activity

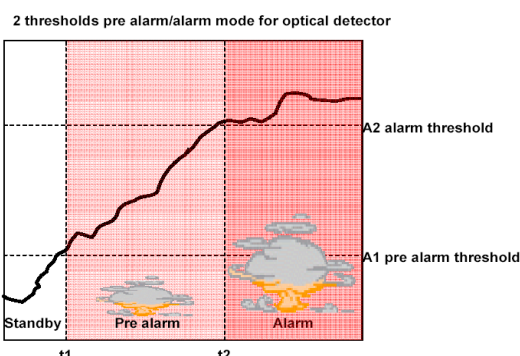
- **Detection criteria:** several levels of sensitivity for each type of detector.
- **Site activity:** Activation/deactivation of day/night mode according to a time table set while panel programming



PRE-ALARM/ALARM MODE

→ Detection criteria programming according to type of area to be protected

- **Detection criteria:** several levels of sensitivity for each type of detector set while panel programming
- **Type of area to be protected:** According to the type of area to be protected, time between pre alarm (threshold 1) and alarm (threshold 2) can be used for an early intervention from security staff before automatic actuation



SCHEDULED TIME MANAGEMENT FROM PANEL PROGRAMING SOFTWARE:

Site Network Equipment Language Help

Network 1 - Héphas 1600 Panel 1 - Héphas 1600 localisation

General parameters Inputs / Outputs Operating Detection hardware Instructions Commands groups

Week template 1 Week template 2 Week template 3 Week template 4

Label: Semaine Type 1

Activated scheduled management range

Unactivated scheduled management range

Monday 08:30 18:00

Tuesday 08:00 18:00

Wednesday 10:00 22:00

Thursday 04:00 15:00

Friday 08:00 23:00

Saturday 00:00 00:00

Sunday 00:00 00:00

Closed days 12:00 17:00

Summary of zones associated to current week type

Closed days:

01 May 2007

08 May 2007

17 May 2007

14 July 2007

25 December 2007

01 January 2008

May 2007

Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 6

7 8 9 10 11 12 13

14 15 16 17 18 19 20

21 22 23 24 25 26 27

28 29 30 31 1 2 3

Today: 29/05/2007

Operating and maintenance

Activate clogging's indication of detectors

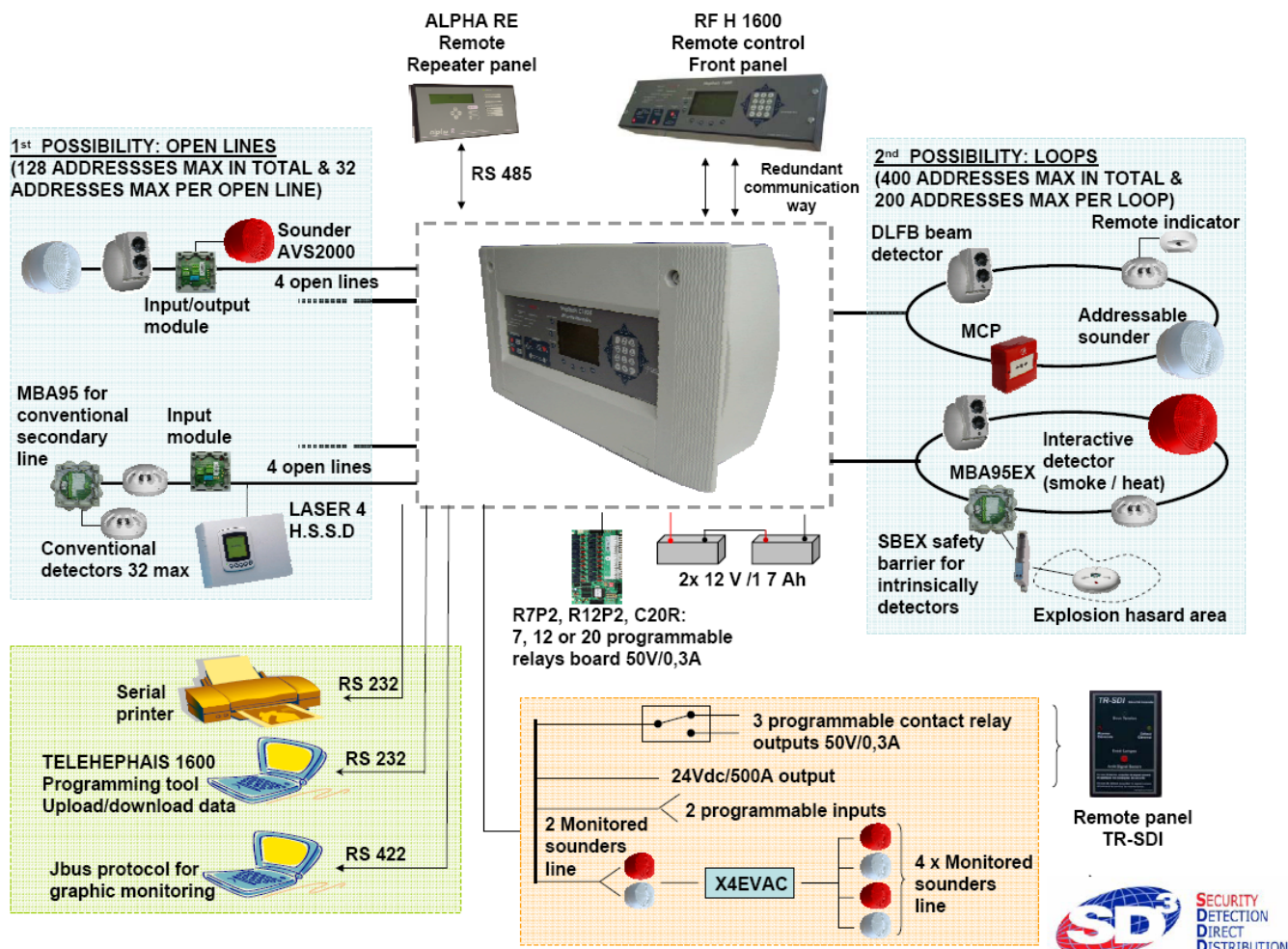




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PANEL SYNOPSIS:



REFERENCE

HEPHAIS 1600 NE
TELEHEPHAIS1600 E

DESCRIPTION

Intelligent/Interactive compact fire detection control panel with max 400 addresses – 2 master loops for 400 points (max 200 addresses/loop) or 4 spur circuits, EN54-2, EN54-4, in small box
Software programming tool

OPTIONS & ACCESSORIES

ALPHA RE
RF H 1600
C20R
R4P2
R7P2
R12P2
X4 EVAC

Remote user interface with serial connection alphanumeric display 160 characters and keyboard
User interface front panel (command and control) with alphanumeric display, 160 characters and keyboard
20 way programmable relay output module
4 way programmable relay output module
7 way programmable relay output module
12 way programmable relay output module
4 monitored way sounder board

