



HEPHAIS 1600

Modular interactive fire detection control panel

- **Maximum 1600 addresses on 16 loops**
- **Base: 1 board module with 400 points on 2 loops**
- **Expansion board: MG2B with 400 points on 2 loops**
- **Networkable with MGNET board**
- **EN54-2, EN54-4**
- **CE Certified according to CPD**

HEPHAIS 1600 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 is an **interactive-addressable** panel and it can manage up to **1600 devices** on **16 loops** of detection.

The panel is made of a basis CPU board managing **400 points on 2 loops** or **128 points on 4 open lines**.

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

HEPHAIS 1600 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 **1600 detectors or manual call points**, that can be equipped of short-circuit isolator.

Adapted to a large scale of application, **HEPHAIS 1600** 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, network scheduled sensitivity and the manual setting constitute very useful start up modes which make **HEPHAIS 1600** 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 400 command groups**.

Héphaïs 1600 panel also have the capability to be connected on a **network** through **RS485 redundant connection** of panels with a maximum of **16 Héphaïs 1600**. This allows to install **several CIE** on a same site (with main and auxiliary panels) and particularly it increases the number of points on a system to a **maximum of 25 600 points**.



Main characteristics

- 1600 addressable devices
- 1000 zones, 400 groups of command
- Base: 2 loops (200 addr./ loop) or 4 open circuits (32 det./line)
- Expansion board: MG2B 2 loops (200addr/loop) or 4 open circuits
- 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)
- Networkable wit MGNET board

Héphaïs 1600 models:

Héphaïs 1600-400/L
Large box, Networkable



Héphaïs 1600-400/L BB
Large box, without panel
Networkable



Héphaïs 1600-400/S
Small box, Networkable



Héphaïs 1600-400/S BB
small box, without panel
Networkable



Héphaïs 1600-400 LPM
Large metallic box
Networkable

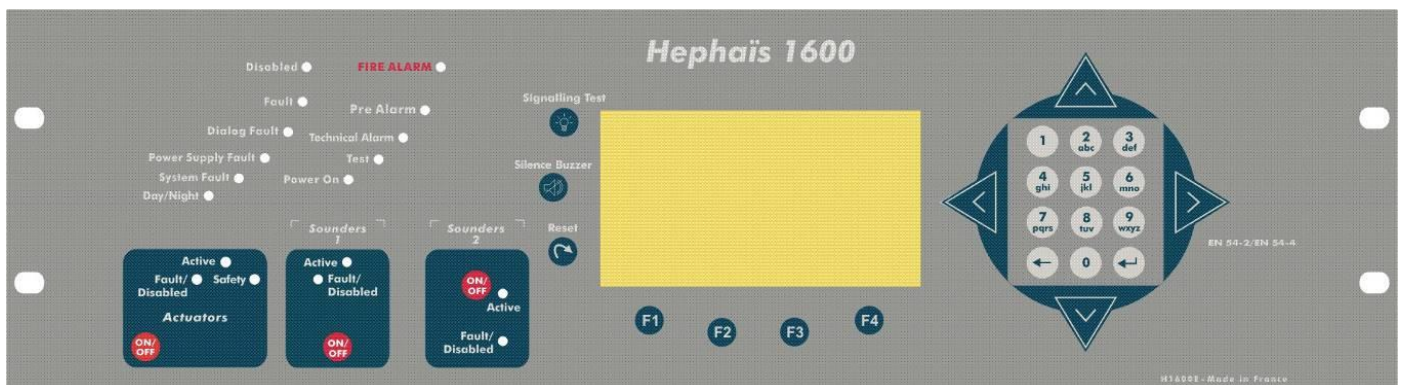




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Electrical specification			
Mains supply voltage	230Vac (-15%,+10%), 50Hz or 60Hz		
Operating voltage	26,4V to 29 Vdc		
Wiring	2 x (0,6 to 1,5) mm ² max, shielded / Length = 1500m max		
Batteries	2 x 12V/17Ah ≤ 800 points ≤ 2 x 12V/24Ah		
Autonomy 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			
	METALLIC BOX	LARGE BOX	SMALL BOX
Dimensions (mm) / weight (without batteries)	620x500x218(HxWxD) 17Kg without batteries	525x610x175(HxWxD) 9 Kg without batteries	320 x 610 x 175 (HxWxD) 5Kg without batteries
Material/colour	Steel / RAL 7035	ABS 5V/RAL 7035	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/128 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...) <i>Front panel</i> 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 <i>On front panel</i> 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			
MG2B board	2 loops or 4 open lines expansion board		
MGNET	Network Card		
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

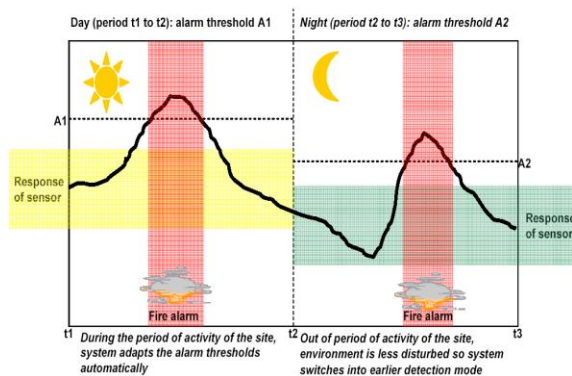
Modular interactive fire detection control panel

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

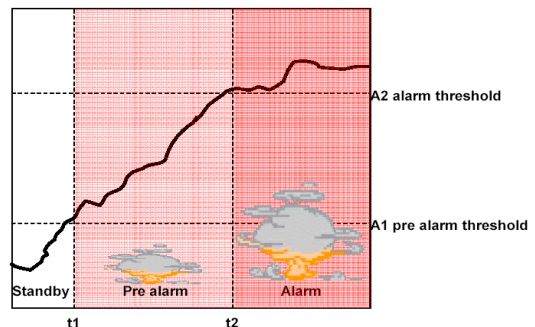


PRE-ALARM/ALARM MODE

→ 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

2 thresholds pre alarm/alarm mode for optical detector



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 T type 1

Activated scheduled management range (Green bar)
Unactivated scheduled management range (Grey bar)

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
Today: 29/05/2007

Operating and maintenance
 Activate clogging's indication of detectors

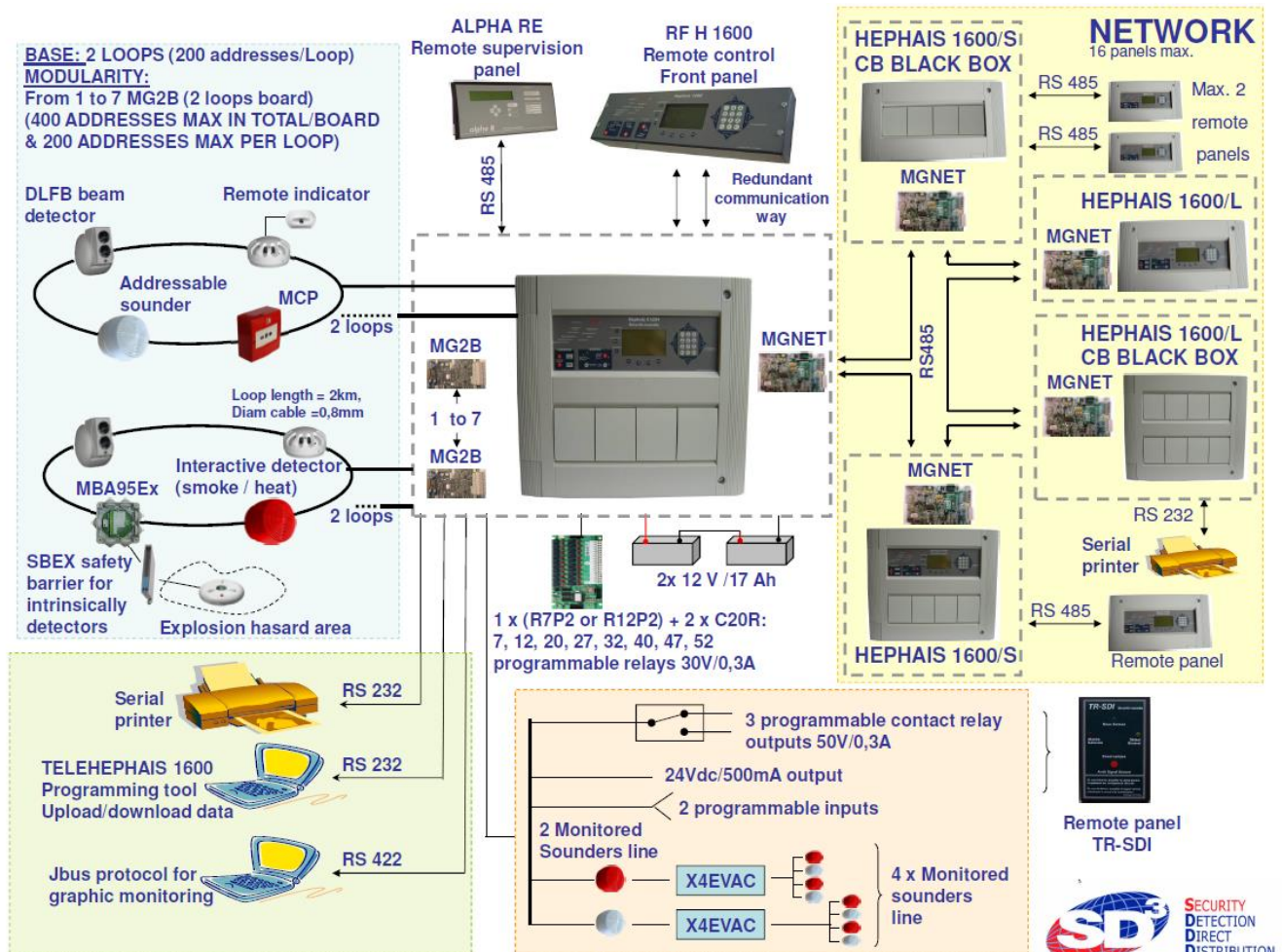




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PANEL SYNOPSIS:



REFERENCE

HEPHAIS 1600-400/L
 HEPHAIS 1600-400/S
 HEPHAIS 1600-400/L BB
 HEPHAIS 1600-400/S BB
 HEPHAIS 1600-400 LPM
 TELEHEPHAIS1600 E

OPTIONS & ACCESSORIES

MG2B
 IE2M
 RF H 1600
 ALPHA RE
 C20R
 R7P2
 R12P2
 MGNET
 X4 EVAC

DESCRIPTION

Modular Intelligent/Interactive fire detection control panel with max 1600 points – supplied as standard for 400 points on 2 loops (max 200 addresses/loop) or 4 spur circuits, EN54-2, EN54-4, in large box, networkable

Modular Intelligent/Interactive fire detection control panel with max 1600 points – supplied as standard for 400 points on 2 loops (max 200 addresses/loop) or 4 spur circuits, EN54-2, EN54-4, in small box, networkable

Modular Intelligent/Interactive fire detection control panel with max 1600 points – supplied as standard for 400 points on 2 loops (max 200 addresses/loop) or 4 spur circuits, EN54-2, EN54-4, in large box, black box without front panel, networkable

Modular Intelligent/Interactive fire detection control panel with max 1600 points – supplied as standard for 400 points on 2 loops (max 200 addresses/loop) or 4 spur circuits, EN54-2, EN54-4, in small box, black box without front panel, networkable

Modular Intelligent/Interactive fire detection control panel with max 1600 points – supplied as standard for 400 points on 2 loops (max 200 addresses/loop) or 4 spur circuits, EN54-2, EN54-4, in metallic box, networkable

Software programming tool

Extension module for 4 spur (max 32 points per circuit) circuits or 2 loops (max 200 points per loop) for 05 intelligent detectors range

Extension board allowing to connect from 2 to 4 extra MG2B. Allows the panel to reach a maximum of 16 loops

User interface front panel (command and control). With alphanumeric display 160 characters and keyboard

Remote user interface with serial connection alphanumeric display 160 characters and keyboard

20 way programmable relay output module

7 way programmable relay output module

12 way programmable relay output module

Network card

4 monitored way sounder board

