

Technical data: Master unit

Input supply	230 VAC \pm 15 %
Output Voltage	24 VDC, 1A, for external control purposes, sounder and extinguishing fan
Battery	2 Ah (sufficient for 4 hours)
Smoke detectors	2 optical scattered light detectors used in two-detector coincidence detection
Supervised in- and outputs	for mains supply, smoke detectors 1 & 2, manual release, door contact switch, extinguishing fan, alarm horn, external control
Voltage-free relay outputs	for pre-alarm, main alarm, common fault and shutdown contact (contact load 30 VA)
Suppressant disabling function	via door contact switch
Suppressant	FM-200 , C ₃ F ₇ H/N ₂ (25 bar)
Suppressant cylinder	1 litre, for a maximum of 1.2m ³ protected volume, approved according to RL 97/23/EG and RL 1999/36/EG
Operating temperature range	0 °C up to 40 °C
Weight	Approximately 14 kg
Indications	Mains supply, CPU, common fault, smoke detectors 1 & 2, manual release, extinguishant container (pressure switch), extinguishing fan, sounder, external control, discharge actuator, pre-alarm, main alarm, discharge (suppressant released)
Service buttons resp. key switch	Unit on/off, extinguishment on/off, reset
Dimensions	
Width	19"
Height	2 HU (approx. 87 mm)
Mounting depth	403.25 mm

Technical data: Slave unit

Smoke detectors	2 optical scattered light detectors used in two-detector coincidence detection
Suppressant	FM-200 , C ₃ F ₇ H/N ₂ (25 bar)
Suppressant cylinder	1 litre, for a maximum of 1.2m ³ protected volume, approved according to RL 97/23/EG and RL 1999/36/EG
Operating temperature range	0 °C up to 40 °C
Weight	Approximately 8 kg
Indications	via master unit
Dimensions	
Width	19"
Height	2 HU
Mounting depth	265 mm

Installation and commissioning must be in accordance with the KIDDE-DEUGRA installation, operation and commissioning manual.



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PanelSafe

19" Cabinet

Fire Suppression System

PanelSafe

Integrated Protection for Data Storage Cabinets



Example of Master/Slave mounting

Data processing, telecommunications, ISPs and production plants are today increasingly dependent on the permanent availability of their electronic equipment. Failure of such equipment leads to severe disruption and consequent loss of revenue. Effective fire protection is crucial because it is often not only the fire but the fumes that damage the components.

The PanelSafe system offers localised protection for high-value electronic equipment. Fires are suppressed in the first critical phases of their development, before they have a chance to do any serious damage.

PanelSafe is an automatic fire detection and suppression system fully customised in a 19" modular rack. It is a highly cost-effective fire protection solution for EDP servers, telecommunication systems and switch cabinets. It consists of a master unit (fully functional fire detection, control and suppression unit) with an optional slave unit (detection and suppression).

The PanelSafe cabinet suppression system saves space through its ease of integration into standard enclosed 19" modular rack cabinets with volumes of up to 1.2 m³. Larger cabinets and interconnected adjoining cabinet units (max. 5) can be protected with additional slave units (containing detection and suppression components only). PanelSafe is available as in-cabinet and on-cabinet versions.

On-cabinet version: Suppression nozzle and smoke detectors are integrated inside the cabinet



Scope of delivery: terminal block, extinguishing fan and door contact switch; optional: manual release

Flexible by modular design

PanelSafe Features

- **Space saving**
 - 19"-unit with 2 height units only
- **Rapid detection**
 - Smoke detectors located within the 19" cabinet
- **Minimising damage**
 - via automatic shutdown contact
- **Rapid extinguishment**
 - due to the direct discharge of the FM-200 suppressant within the cabinet
- **Simple installation and commissioning**
 - with pre-assembled components
- **Easy maintenance**
 - due to modular concept
- **Quick and safe recognition of events**
 - reported via detailed multifunctional LED-display
- **Safe protection of large cabinets**
 - Even cabinets up to 6 m³ can be protected by using slave units

PanelSafe Applications

- EDP and telecommunication cabinets
- CNC control cabinets
- Low voltage cabinets
- Telephone systems
- Medical facilities



In-cabinet master unit
For mounting in a standard 19" modular rack cabinet



In-cabinet slave unit
For extending the protected volume



On-cabinet master unit
for mounting on 19" cabinets with corresponding volume



On-cabinet slave unit
for extending the protected volume



Accessories for the on-cabinet version:
Extension cable for smoke detectors, bulkhead screw fitting and nozzle extension hose