Panasonic

SHORT FORM 2013

FIRE ALARM SYSTEMS

http://pesn.panasonic.se

Contents

FIRE ALARM SYSTEMS

PRODUCTS

Fire Alarm Systems EBL512G3 and EBL128

The demands on fire alarm systems are increasing. The system must be on the highest possible alert during the whole day in various activities. The most important task for a fire alarm system is early detection of a fire in order to save lives and property in all kinds of environments. Fires which are difficult to detect such as glowing or smouldering fires have to be quickly and effectively detected.

On the other hand, false alarms should also be reduced to a minimum. This means that the system must have both high sensitivity and a low sensitivity "at the same time".

The system is also exposed to an increasing number of interferences such as mobile telephones and changes in the surroundings. All these demands require an intelligent system, i.e. both the c.i.e. and the detectors have to be intelligent.

EBL512G3 Control and Indication Equipment (5000)

EBL128 Control and Indication Equipment (4500)

General

EBL512G3 and EBL128 are analog addressable fire alarm systems which can also be used with addressable detectors, inputs and outputs as well as with conventional detectors. Both fulfill the EN54 standards: EN54 part 2 (Control and indicating equipment) and EN54 part 4 (Power supply).

Detectors, manual call points, and general input and output units for free programmable customer specific functions can be connected to the COM loops. Each loop unit uses one address.

EBL512G3 and EBL128 – a unique concept for early and safe detection without false alarms

EBL512G3 andEBL128 are a new generation of fire alarm systems. With a unique functionality in cooperation with adaptation to the surrounding environment, self-diagnostics and interactivity, the system can be installed in most premises.

- Each analog detector in the system is individually adapted to the surrounding environment. The sensitivity of each analog detector is constant in spite of the individual contamination or background particle level. The long-term changes are, for example, distinguished from the short-term changes of a smouldering fire.
- Intelligent alarm algorithms and a unique self learning algorithm to detect smouldering fires.
- The self-diagnostics function detects every deviation from the accurate normal condition in the electronics and in the detection chamber.
- With the new 440x detectors an advanced learning function, i.e. the detectors will adapt the alarm algorithm most suitable for the actual environment.
- The interactivity function uses information from one, two or more detectors in the system to increase reliability in detection of a real fire.
- A family of state of the art analog detectors gives the c.i.e. accurate and noise-free information about occurrence of smoke and/or temperature changes in the installation.

A large variety of units can be connected to the COM loop:

- Analog addressable smoke and heat detectors
- Waterproof heat detectors
- Addressable manual call points
- Addressable short circuit isolators
- Addressable sirens/sounder bases
- Addressable I/O units, also with monitored voltage outputs
- Addressable power supplies
- Conventional detectors via I/O units

The EBL512G3 and EBL128 fire alarm systems have a set of functions that meet the most stringent requirements relating to fire detection and fire prevention measures.

- Service signal is given when a detector is contaminated to a certain level.
- A large number of fire detection algorithms are supported by the system and can be set individually for each analog detector.
- Alert annunciation. The output for the alarm transmitter can be delayed for immediate on-site investigation of a fire alarm.
- Detectors, zones, programmable outputs and outputs for the alarm transmitter can be individually disabled.
- Internally and/or externally controlled time channels. E.g. one or more alarm points may be disabled via an external timer.
- User programmable outputs can be programmed in a very flexible way enabling control of sirens, fire doors, extinguishing systems, etc.
- External fire brigade panels can be connected to each c.i.e.
- Display of the actual system status in a PC or Pocket-PC via a web-server connected to an intranet (LAN) or the Internet. In the event of fire alarm, service signal, etc. an e-mail can be sent to the appropriate personnel. Also provides one-way communication to an external computer system.

Planning, commissioning and installation tool EBLWin

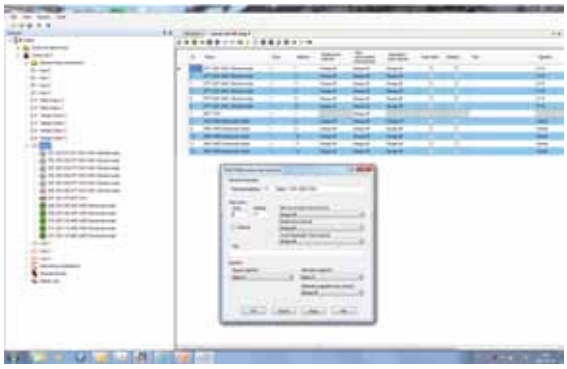
Modern fire alarm systems are very complex and versatile. In order to get optimal performance and cost effective planning, installation, commissioning and maintenance of a system, we provide our distributors with a powerful tool. This tool is the Windows based PC software EBLWin, which is a complete support packet for the respective system. All configurations and settings for the system are done in the PC and then downloaded to the respective c.i.e.

The analog 33xx detectors (left) received a design award at the 1998 Hanover Exhibition.

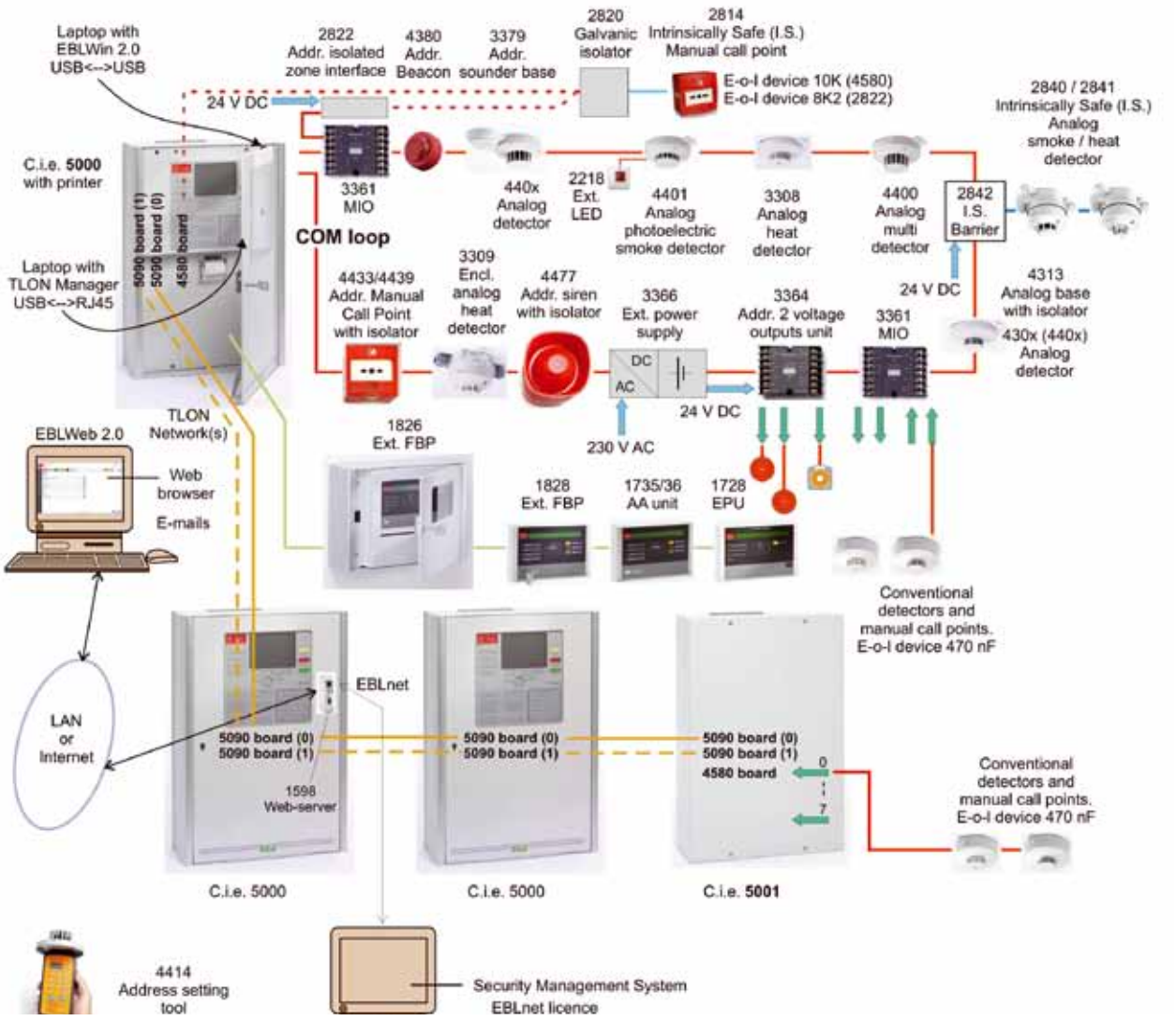
The latest generation of analog detectors 44xx (right) have a similar design.

Planning, commissioning and installation tool EBLWin

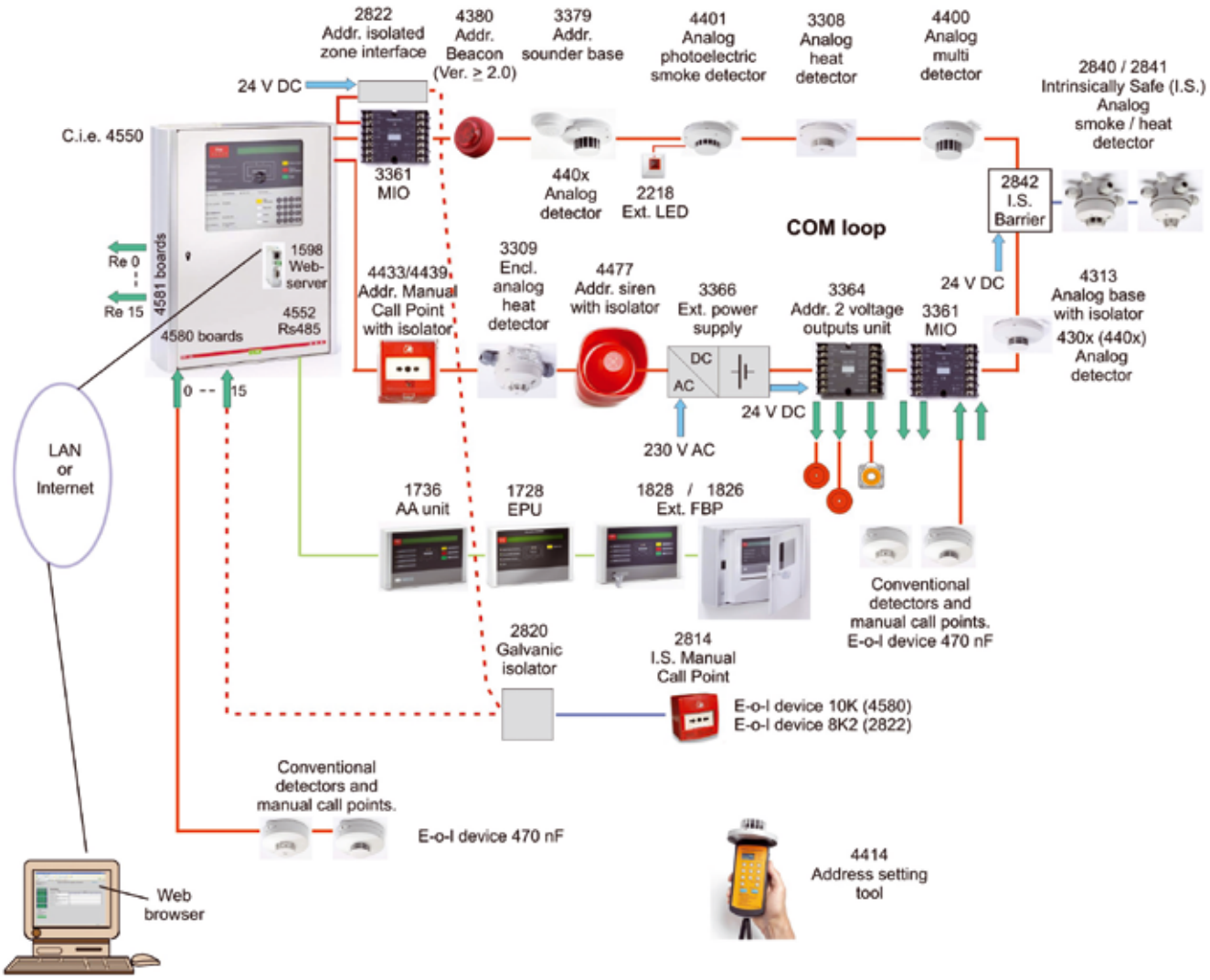
Modern fire alarm systems are very complex and versatile. In order to get the optimal performance and cost effective planning, installation, commissioning and maintenance of a system, we provide EBLWin – a powerful Windows based PC tool. EBLWin is a complete support package for the systems EBL128 and EBL512 G3. All configurations and settings for the system (SSD) are done in the PC and after that downloaded to the c.i.e.
For faster and easier commissioning, an “SSD auto generation function” is available.



EBL512G3 system overview:



EBL128 system overview:



EBL512G3, 5000, 5001

Features

- **EBL512G3** – the third generation of the intelligent analog addressable system EBL512G3
- Up to **1020** addresses – of which up to 512 can be alarm points **–** per control and indicating equipment (c.i.e.)
- **Redundant network** for up to 30 control units with two TLON networks

Type numbers	
5000	EBL512G3 c.i.e. with or without a printer and for 128, 256 or 512 alarm points - depending on the article number. Supplied with a standard mounting plate approved for an incombustible wall (e.g. concrete).
5001	EBL512G3 c.i.e. A “grey box” with no front, no display and no door with plexiglass. 128, 256 or 512 alarm points – depending on the article number. Supplied with a standard mounting plate approved for an incombustible wall (e.g. concrete).
5020	Mounting plate for 19’’ mounting rack. For one 5000 / 5001.
5021	Mounting plate for inflammable wall (e.g. wood). For one 5000 / 5001.
5059	Paper roll (spare part for the printer mounted in 5000).
5013	Cabinet for drawings.
4580	8 zones expansion board (8 zone line inputs for conventional detectors).
4581	8 relays expansion board (8 programmable relay outputs).
4583	In- and outputs expansion board. 3 outputs and 5 inputs.
5089	Connection cable for up to six expansion boards (4580-4583).
5090	TLON connection board – required for a TLON network. One board in each c.i.e. **NOTE!** For redundant network are two 5090 boards required in each c.i.e.

EBL128, 4550

Features

- **EBL128**, an intelligent analog addressable fire alarm system for up to 128 addresses
- Auto generation of the site specific data for easier c.i.e. programming

Type numbers	
4550	EBL128 c.i.e. (128 addresses). Batteries are not included.
4552	RS485 transceiver component, for up to four display units, i.e. external fire brigade panels 1826/1828, external presentation unit 1728 and/or alert annunciation units 1735 / 1736.
4551	Expansion board holder. (For two 4580 and two 4581 expansion boards.)
4580	8 zones expansion board. (Max. two per c.i.e.)
4581	8 relays expansion board. (Max. two per c.i.e.)

The 4580 board can be used to connect conventional detectors and manual call points to EBL128. An end-of-line capacitor (470nF) shall be connected in the last alarm point on each zone line. More information is available in the EBL128 Planning Instructions and Operating Instructions.

External presentation unit 1728

Features

- For presentation of pre-warnings, fire alarms, faults and disablements
- Compact size

Type numbers	
1728	External Presentation unit (S/W V1.2). **1728SE / 1728UK:** Designation texts on the front in Swedish / English. **NOTE!** In Swedish convention (SBF): “General fault” presentation but no buzzer and no “General disablement” presentation.
4552	RS485 Transceiver component / comm. module. (Required in EBL128. SW mode 1826/28 – 1587 only. EBL128 software V≥1.0.5 required.)

Alert annunciation units 1735 and 1736

Features

- Control and indicating unit for alert annunciation
- Compact size

Type numbers	
1735	Alert annunciation unit. Swedish designation texts.
1736	Alert annunciation unit. Designation texts in any language.
4552	RS485 transceiver component, for connection of up to four display units, e.g. Alert Annunciation Units 1735 / 1736 in system EBL128.

External fire brigade panel 1826

Features

- Control and indicating panel for the fire brigade personnel
- Built-in printer (option)

Type numbers	
1826	External Fire Brigade Panel
1835	Printer for External Fire Brigade Panel 1826.
4552	RS485 Transceiver component / comm. module. (Required in EBL128. Only SW mode 1826/28 – 1587 can be used.)

External fire brigade panel 1828

Features

- Control and indicating panel for the fire brigade personnel (key required)
- Indicating panel for all personnel (key not required)
- Compact size

Type numbers	
1828	External Fire Brigade Panel
4552	RS485 Transceiver component/comm. module. (Required in EBL128. Only SW mode 1826/28 – 1587 can be used.)

Web-server II 1598

Features

- Web-server II, 1598; second Web-server generation
- Increased memory and faster CPU
- The same hardware is used for the Web-server function and can at the same time be a gateway to other systems.

	Type number
1598	Web-server II, incl. cable & accessories kit (The RS232C and power supply cables for systems EBL512G3 and EBL128 are supplied.)

Web-server software

The Web-server start page

Features

- Configuration and Web-server software download is done via the PC program EBLWin.

Web-server II, OPC512 / OPC512 G3

Features

- Software for the Web-server II, 1598
- Configuration tool for OPC512 and OPC512 G3 respectively

Type number	
[1)]	OPC512 II Configuration tool for EBL512 versions 2.5x and 2.7.x. OPC512 G3 Configuration tool for EBL512 G3 version ≥ 2.0.
1598	Web-server II, incl. cable & accessories kit (The RS232C and power supply cables for systems EBL512G3 and EBL128 are supplied.)
AFPS03510D	Panasonic FP OPC Server software and one license.

[1)] The configuration tool can be downloaded from our web page. Since the configuration tool is different depending on the EBL software version, there might be different versions to be found on the web page. It is very important that the configuration tool has the same version as the EBL version, i.e. the two first digits (e.g. **2.5.**x).

http://pesn.panasonic.se
NOTE! User name and Password are required for software download.

Analog base 3312

Features

- Common base for the different analog detectors
- Easy connections including output for external LED
- Label holder recess

Type numbers	
3312	Analog base
3390	Label holder (100 holders per packet, excluding labels)
3391	Labels for 3390 (10 sheets à 132 labels)

Analog base 3312F / FL

Features

- Common base for the different analog detectors
- Fast connectors
- Label holder recess

Type numbers	
3312F	Analog base with fast connectors (blue) for the COM loop
3312FL	Analog base with fast connectors (blue) for the COM loop and fast connectors (gray) for one ext. LED (e.g. 2218)
3390	Label holder (100 holders per packet, excl. labels)
3391	Labels for 3390 (10 sheets à 132 labels)

Analog base with short circuit isolator 4313

Features

- Common base for the different analog detectors
- Built-in short circuit isolator
- Easy connections incl. output for external LED
- Comes with a white protection cover to be used when no detector is plugged in the base.

Type numbers	
4313	Analog base with isolator
3390	Label holder (100 holders per packet, excl. labels)
3391	Labels for 3390 (10 sheets à 132 labels)

Analog heat detector 3308

Features

- Different modes for compatibility with other EBL systems
- Algorithms for class A1, A2 S or B S

Type numbers	
3308	Analog heat detector

Enclosed analog heat detector 3309

Features

- Different modes for compatibility with other EBL systems/detectors
- Algorithms for class A1, A2S or BS
- Ⓔx ATEX compliance
- Waterproof (IP67)

Type numbers	
3309	Enclosed analog heat detector (including connection box, 3 compression glands and gasket)
3390	Label holder (100 holders per packet, excluding labels)
3391	Labels for 3390 (10 sheets à 132 labels)

Analog multi detector 4400

Features

- Constant sensitivity / Service signal at a fixed level of contamination
- Advanced algorithms and functions and yet compatible with older EBL systems
- Can be used in an Advanced mode with the newest alarm algorithms.
- In Advanced mode a learning function can be used, i.e. the detector will adapt the alarm algorithm most suitable for the actual environment.

Type number	
4400	Analog multi detector

Analog photoelectric smoke detector 4401

Features

- Constant sensitivity / Service signal at a fixed level of contamination
- Advanced algorithms and functions and yet compatible with older EBL systems
- Can be used in an Advanced mode with the newest alarm algorithms.
- In Advanced mode a learning function can be used, i.e. the detector will adapt the alarm algorithm most suitable for the actual environment.

Type number	
4401	Analog photoelectric smoke detector

Addressable manual call point with isolator 4433

Features

- Built-in short circuit isolator
- Attractive design compliant with EN54-11
- Test key for routine testing without breaking the glass element
- Protection against accidental operation

Type numbers	
4433	Addressable manual call point with isolator
2347	Replacement glass (10 pcs.)
2348	Replacement polycarbonate cover (10 pcs.)

Enclosed addressable manual call point with isolator 4439

Features

- Built-in short circuit isolator
- Attractive design compliant with EN54-11. IP rating IP56
- Test key for routine testing without breaking the glass element
- Protection against accidental operation

Type numbers	
4439	Enclosed addressable manual call point with isolator
2347	Replacement glass (10 pcs.)
2348	Replacement polycarbonate cover (10 pcs.)

Addressable multipurpose I/O unit 3361

Features

- Two programmable relay outputs
- Two programmable inputs (one can be used as a zone line input)

Type numbers	
3361	Addressable multipurpose I/O unit (including plastic protection cover).
3362	Waterproof box (IP66/67) (including four compression glands).
3363	DIN rail interface kit, for symmetric 35mm DIN rail (plate, clamp and screws)

Addressable 2 voltage outputs unit 3364

Features

- Two programmable supervised voltage outputs (24V DC, 1A)
- A special fire door closing voltage output

Type numbers	
3364	Addressable 2 voltage outputs unit (including plastic protection cover and two 470nF capacitors).
3362	Waterproof box (IP66/67) (including four compression glands).
3363	DIN rail interface kit, for symmetric 35mm DIN rail (plate, clamp and screws)
3366	External power supply. (230V AC/24V DC, 2.2 alt. 0.85A)

External power supply 3366

Features

- Connected to a COM loop.
- Monitored from the c.i.e.
- 230V AC / 24V DC, (2.1 alt. 0.85A)
- Space for batteries inside the housing.

	Type number
3366	External power supply (batteries are not included)

Addressable siren with isolator 4477

Features

- Built-in short circuit isolator
- High sound output but low current consumption
- Three different tones and priority levels
- Connected directly on the COM loop

	Type number
4477	Addressable siren with isolator

Addressable sounder base 3379

Features

- High or low sound output
- Three different tones and priority levels
- Connected directly on the COM loop

Type number	
3379	Addressable sounder base (sounder and a special version of analog base 3312)

Addressable beacon 4380

Features

- Low current consumption thanks to LED technology
- Shallow (20 mm) or deep (50 mm) base
- Connected directly on the COM loop

Type number	
4380	Addressable beacon with shallow (S) base
4382	Deep (D) base for 4380

Light indicator 4383

Features

- Placed between an analog detector base and the analog detector
- Low current consumption thanks to LED technology

Type number	
4383	Light indicator

Base 2324

Features

- Common base for the different conventional detectors
- Easy connections incl. output for external LED
- Locking mechanism

Type number	
2324	Base (for conventional detectors)

Photoelectric smoke detector 4452

Features

- A conventional (not analog) smoke detector
- Low profile design
- Latest IC technology / highest reliability
- Unleaded soldering

Type number	
4452	Photoelectric smoke detector

Combination heat detector 4318

Features

- Conventional heat detector
- Rate-of-rise and fixed temperature (59°C) alarm level

Type numbers	
4318	Combination heat detector

Heat detectors 4375 and 4376

Features

- Conventional heat detector
- Fixed temperature (static) alarm level

Type numbers	
4375	Heat detector, 60°C, class A2 S.
4376	Heat detector, 80°C, class B S.

Enclosed heat detectors 6295, 6296, 6297, 6298

Features

- Conventional heat detector
- Fixed temperature alarm level
- Ⓔx ATEX compliance
- Waterproof (IP67)

Type numbers	
6295	Enclosed heat detector, 57°C, class A2S (54 to 70°C).
6296	Enclosed heat detector, 72°C, class BS (69 to 85°C).
6297	Enclosed heat detector, 87°C, class CS (84 to 100°C).
6298	Enclosed heat detector, 117°C, class ES (114 to 130°C).
3390	Label holder (100 holders per packet, excluding labels).
3391	Labels for 3390 (10 sheets à 132 labels)

Units for hazardous (Ex) areas – conventional detectors

Features

- Approved Intrinsically safe interface, isolator and detectors
- The Intrinsically safe units are connected to a Galvanic isolator (2820).
- The Galvanic isolator (2820) can be connected to a conventional zone line input or to an I/O unit 3361 connected to a COM loop.
- The Isolated zone interface box has space and a mounting plate for an I/O unit 3361.
- The Isolated zone interface require external 24 V DC.

Type numbers	
2822	Isolated zone interface (including waterproof box and four compression glands)
2823	Isolated zone interface board (spare part)
MTL5061	Galvanic isolator (including waterproof box and four compression glands) (2820)
YBN-R/4IS	Intrinsically safe mounting base (2812)
SLR-E-IS	Intrinsically safe photoelectric smoke detector (2810)
DCD-1E-IS	Intrinsically safe heat detector (2811)
MCP1A-R470SGIS	Intrinsically safe manual call point (incl. back-box & a transparent protection flap) (2814)

Units for hazardous (Ex) areas – analog detectors

Features

- Approved Intrinsically Safe barrier unit and detectors
- The detectors are connected to the Barrier unit, which is connected to a COM loop.
- The Barrier unit require external 24 V DC.

Type numbers	
2840	Intrinsically safe analog photoelectric smoke detector
2841	Intrinsically safe analog heat detector
2842	Intrinsically safe barrier unit (including five compression glands)
2843	Intrinsically safe back-box for 2840 and 2841. Including two compression glands

External indicator (LED) 2218

Features

- Symbol instead of text
- One indicator for all detector types

Type number	
2218	External indicator (LED)

Address setting tool 4414

Feature

- Required for detectors 440x to be used in Advanced mode
- Used for address and mode setting of COM loop units

Type numbers	
4414	Address setting tool (including 3315)
3315	Connection cable for address setting tool 4414

Drip pan for detector 6218

Feature

- Protection against damp/moisture

Type number	
6218	Drip pan for detector

Duct detector chamber UG-4 6377

Features

- Patented venturi pipe and duct housing – only one pipe is required
- User friendly installation
- For conventional as well as analog and addressable systems
- Pipe with a built-in fan is available

Type numbers	
6377	UG-4 duct detector chamber – incl. standard mounting accessories. (**NOTE!** Detector & base have to be ordered separately.)
6380-06	UG-4 pipe 0.6 m.
6380-15	UG-4 pipe 1.5 m – incl. plastic end gasket and rubber gasket TET 26-35.
6380-28	UG-4 pipe 2.8 m – incl. plastic end gasket and rubber gasket TET 26-35.
6381-06 [1)]	UG-4 pipe 0.6 m with built-in fan. (Ext. 24 V AC required.)
6381-15 [1)]	UG-4 pipe 1.5 m with built-in fan – incl. plastic end gasket and rubber gasket TET 26-35.) (Ext. 24 V AC required.)
6381-28 [1)]	UG-4 pipe 2.8 m with built-in fan – incl. plastic end gasket and rubber gasket TET 26-35.) (Ext. 24 V AC required.)
6382 [1)]	UG-4 bracket
6384	UG-4 filter (10 pieces)
6385	UG-4 rubber gasket TET 26-35 (spare part)

[1)] The UG-4 bracket 6382 is required for the mounting of 6377 when a pipe with fan (6381-xx) is used.

Global Network

North America	Europe	Asia Pacific	China	Japan

Panasonic Eco Solutions Nordic AB

Jungmansgatan 12
SE- 211 19 Malmö, Sweden
Tel.: +46 (0) 40 697 7000
Fax: +46 (0) 40 697 7099
http://pesn.panasonic.com

Panasonic®

6501 seen 07/13