Panasonic

Fire alarm system
EBL512 G3
5000 and 5001

- **EBL512 G3** -- the third generation of the intelligent analog addressable system EBL512.
- Up to **1020** addresses - **512 alarm points** - per control and indicating equipment (c.i.e.)
- **Redundant network** for up to 30 control units with two TLON networks

Analog addressable system

EBL512 G3 is an intelligent, analog and addressable **Control and Indicating Equipment for fire detection and fire alarm systems for buildings**, which conforms to the EN54-2 and –4 standards. The front and a large display are very user-friendly. Comes with or without a built-in printer.

Features / functions

The **EBL512 G3** system meets the most stringent requirements relating to fire detection and alarm. The PC software **EBLWin** is used to create, edit, download, upload (backup) the site specific data (SSD), maintenance, new SW downloads, etc.

Some features / functions:

- **Adaptation** of each analog detector's alarm level in relation to its contamination. Service signal when required.
- **Alarm algorithms** with filtering to reduce nuisance alarms. Algorithm for faster detection of smouldering fires.
- **Functions,** customer related: Test mode, Alert Annunciation, disablements, etc.
- **Functions**: Fire door closing, interlocking combinations of outputs & inputs, time channels, alarm delay, two-unit dependence, user definable alarm text for each alarm point, etc.
- **Programmable inputs and outputs** and a large number of trigger conditions.
- **Expansion boards** (options) up to six boards 4580-4583, see the following page.
- **Interface** for ext. Fire Brigade Panels, Alert Annunciation Units, etc.
- **Web-server** 1598 (option) for status presentation and remote control via a PC (web browser & Internet or Intranet).

Up to 1020 addresses

EBL512 G3 has 1020 addresses, of which 128, 256 or 512 can be addresses for alarm points. The c.i.e. can be upgraded on site, i.e. 128 → 256 → 512 alarm points.

Each c.i.e. has four COM loops for connection of up to 255 units per loop.

Some **loop units** that can be connected:

- Analog detectors (sensors)
- Addressable manual call points (with short circuit isolator)
- Addressable short circuit isolator
- Addressable input and output units
- Addressable siren (with short circuit isolator), sounder base & beacon
- Addressable external power supply unit

Redundant TLON Network

Up to 30 EBL512 G3 control units can be connected in a TLON network. Two TLON connection boards 5090 are required in each c.i.e. for a redundant network.

Miscellaneous

EBL512 G3 has space in the grey metal cabinet for two 28Ah Sealed Lead-Acid batteries.

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Type numbers	
5000	EBL512 G3 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.
5001	EBL512 G3 c.i.e. A "grey box" with no front, no display and no door. 128, 256 or 512 alarm points depending on the article number. Supplied with a standard mounting plate.
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.
5014	Cabinet for batteries (Intended for two 12 V, 60-65 Ah batteries.)
4580	8 zones expansion board (8 zone line inputs for conventional detectors). Max. 6.
4581	8 relays expansion board (8 programmable relay outputs). Max. 6.
4583 4583DE	Inputs and outputs expansion board (3 outputs & 5 inputs). 4583DE valid for the German market (for connection of special German equipment). Max. 2.
5089	Connection cable for up to six expansion boards (4580-4583).
5013	Cabinet for drawings. (Similar to the EBL512 G3 cabinet.)
5068	Frame for built-in installation.
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.

In total, max. 6 expansion boards.

EBL512 G3 Article number = Type number plus required parameters, e.g. 5000xxPRTCC-aaa.
xx = Design style (customer option, e.g. colour)
PRT = With printer
CC = Country Code
aaa = 128, 256 or 512 alarm points (customer option, e.g. 512)

Technical data	
Voltage	
primary (V AC)	230 (50 Hz)
secondary / system voltage (V DC)	24 (By backup battery 21.6 – 28.)
Current consumption (A)	**AC** current: 1.6. **DC** current: Depending on type (5000 / 5001), expansion board(s), etc. see EBL512 G3 Planning Instructions (MEW01182).
Ambient temperature (°C)	
operating	-5 to +40
storage	-30 to +60
Ambient humidity (% RH)	max. 90, non-condensing
Ingress Protection rating	IP30
Inputs	4 COM loops for 1020 addresses. 128, 256 or 512 alarm points.
	4 programmable inputs (NO / NC)
Outputs	4 programmable supervised voltage outputs
	2 programmable relay outputs (NO / NC)
	Relay outputs for routing equipment (Fire alarm and Fault condition)
	Power supply (6 x 24 V DC) for Web-server, routing equipment, external equipment, etc.
Size W x H x D (mm)	5000: 438 x 628 x 187 5001: 418 x 625 x 177
Weight (kg)	5000xxPRT: 23.6 / 5000xx: 23.1 / 5001: 18.6
Colour (metal cabinet)	Light grey (NCS S1500-N, PMS Cool Grey 2)
Approvals	CE EC certificate no. **0786-CPD-20982** EN54-2:1997 / A1:2006, EN54-4:1997 / A2:2006 The Swedish front conforms to SS3654.

Note! All voltages are nominal.

All technical features and data are subject to changes without notice, resulting from continuous development and improvement.

Product Leaflet	Date of issue	Revision / Date of revision
MEW01251	2010-06-08	5 / 2014-05-23