



R37/9009



R37/9008

SIEMENS

Building Technologies

SIGMASYS L
Multifunctional
danger alarm control
and indicating panel



SIGMASYS L multifunctional danger alarm control and indicating panel

- For complex danger alarm systems with a high concentration of monitored alarm lines
- Up to 3x SIGMASYS M modules can be assembled in one floor cabinet
- Each module can be expanded with up to 6 modules for different alarm systems
- Variable expansion possible by means of optional modules
- Available with and without a cutout for the operating panel

Application

The SIGMASYS L multifunctional and complex danger alarm control and indicating panel for loop and radial line technology is used in fire alarm systems. It has a high concentration of monitored alarm lines.

Detector groups that can be parameterized to the specific customer, individual plain texts, application-specific links and programs permit high flexibility with regard to optimum adaptation to the concrete application.

Description

The SIGMASYS L danger alarm control and indicating panel has a modular structure. It consists of a 19" wall or floor cabinet. The wall cabinet is prepared for installation of one 19" M module, two 150 W power supply units, one SIGMANET or DT1000 operating panel, six 100 extinguishing control modules and four 12 V/65 Ah batteries. Up to three 19" M modules can be installed in the floor cabinet. The 19" M module corresponds to the SIGMASYS M control and indicating panel in terms of functional scope. This means that various alarm systems such as SIGMALOOP, Transliner Ringbus, pulse polling and limit monitoring can be operated together.

Cost-effective and customer-specific solutions can be realized by means of parameter settings and free formation of detector groups (including across loops).

Intelligent evaluation programs in control and indicating panels and detectors ensure maximum detection reliability and ease of operation.

The SIGMASYS L control and indicating panel can be networked with other SIGMASYS C, M, L and D100 control and indicating panels as well as SIGMANET operating panels via the failsafe SIGMANET.

The bidirectional transmission protocol used by SIGMANET means that the entire system retains its full functionality even in the event of a line fault. Malfunction of a user does not result in interruption of data transmission between the remaining users.

Features

Detectors/detector groups:

- Individual addressing of detectors possible
- Free detector group formation, including across loops
- Up to 1536 detector groups
- Simple formation of organizational units through the assignment of detector groups to function blocks

Loops:

- A wide range of elements can be connected within a loop (detectors, detector displays, panels, controllers, etc.)
- Up to 128 addresses can be parameterized for each loop
- Modular structure for the connection of up to 72 loops or up to 144 monitored alarm lines

Reliability:

- Full functionality in the event of interruption or short circuit of the loop
- Increased protection against spurious alarms through multi-detector dependence
- Maximum availability and failsafe performance through the use of a second central processing unit (SOC computer module)

Display/parameterization/log book:

- Plain text can be parameterized for each indicator point
- PC-aided parameterization (SIGMAPLAN)
- Log book for storage of the events

Miscellaneous:

- PC-aided commissioning and maintenance (SIGMADIAG)
- Realization of decentralized cross-loop controllers
- Timed adaptation to operations (day/night settings)
- Integrated key depot
- Operating panel can be installed remotely from the control and indicating panel

Expandable

- Up to 5100 address elements
- Up to 1536 detector groups
- Up to 18 slots for optional mixed equipping with connection modules from:
 - Sinteso Fdnet system 4 peripheral fieldbuses each
 - SIGMALOOP system 4 ring lines or 8 spur lines each
 - Pulse polling system 8 monitored alarm lines each
 - Limit monitoring system 8 monitored alarm lines each
 - Transliner Ringbus system 2 ring lines or 4 spur lines each
 - Interfaces
 - Networking and coupling with other SIGMASYS/D100 control and indicating panels
 - Operating panels
 - Danger manager
 - Printer
 - Fire brigade operator panel (FBF)
 - Fire brigade indicator panel (FAT)
 - Key depot

Conformity with standards

Fire alarm systems:

- DIN EN 54 Parts 2 and 4
- DIN 14675
- Quality management system certified to ISO 9001

Approvals

VdS approval	
- BMT	G200047, S297012
DIBT approval	Z-6.5-1848



Technical Data

Mains connection	230 VAC /115 VAC (+10%/–15%)
Power supply unit	3 x 150 W
Output voltage	27.6 V DC at 20 °C
Number of loops	3x24 loops/ alternatively 3x48 spur lines (can also be mixed)
Loop addresses	Max. 128 per loop
Connectible detectors and elements	Sinteso elements, SIGMALOOP elements, Transliner Ringbus elements, MS8 alarm and control elements, and limit value detectors. Mixed operation possible through the use of various connection modules.
Height units (floor cabinet)	39 or 34 with installation of 4x 12 V/65 Ah batteries
Dimensions (H x W x D) in mm	
Floor cabinet	2200 x 600 x 400
Wall cabinet	1200 x 600 x 400
Housing color	Ergo gray (similar to RAL 7044)
Permissible ambient operating temperature	0 °C to +40 °C
Protection class (EN 60529)	IP30
Environment class (VdS 2110)	I
Relative humidity	<75%, short-term 95% without condensation
Weight	Approx. 60 kg wall cabinet/100 kg floor cabinet, in each case without equipment

Ordering information

Article	Number code	Explanation
SIGMASYS-L-SS with cutout for operating panel	C24230-A16-B3	Floor cabinet with door, pedestal, and wiring ducts
SIGMASYS-L-SS without cutout for operating panel	C24230-A16-B4	
XH 1001 wall cabinet	A5Q 0000 3450	Wall cabinet for 1x 19" M module
Options for cabinet		
19" M module	S24230-B520-A3	Module with processor unit (8 HU) max. 3
19" power supply module	S24230-B522-A2	Holder for power supply module (12 HU)
24 V / 150 W power supply module	V24230-Z6-A2	Max. 3
19" optional module	S24230-B521-A1	7 optional slots (4 HU)
SIGMANET operating panel	S24230-F130-A4	can be installed in C24230-A16-B3
DT1000 danger alarm system operating panel	S24236-F4-A1	S24236-F30-A1 with WEB connection

Article	Number code	Explanation
Options for 19" M module		
SIGMASYS FDnet connection	S24230-B150-A1	Module for Sinteso elements
SIGMASYS MPC	S24230-B103-A6	Module for SIGMALOOP
SIGMASYS APL20	S24230-A123-A2	Connection module for MPC
SIGMASYS GMG-S	S24230-A106-A2	Module for limit monitoring system
SIGMASYS PMG-S	S24230-A105-A1	Module for pulse polling system
SIGMASYS APL26	S24230-A122-A1	Connection module for GMG/PMG
SIGMASYS LPC	S24230-B139-A1	Module for Transliner Ringbus
SIGMASYS TR-APL	S24230-A145-A1	Connection module for LPC
SOC computer module	S24230-A100-A4	Redundant computer module

The control and indicating panel complies with the relevant standards and regulations in disassembled state with the options listed above.

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