



R33/422

# SIEMENS

Building Technologies



## SIGMASYS M Multifunctional danger alarm control and indicating panel

# SIGMASYS M multifunctional danger alarm control and indicating panel

- **Modular danger alarm control and indicating panel for fire alarm systems (BMT), intrusion alarm systems (IMT), and technical messages**
- **1700 detectors from different alarm systems can be connected**
- **Can be networked with SIGMASYS C, M, L and D100 control and indicating panels as well as operating panels**
- **Free operation, indication and control opportunities via SIGMANET for all users throughout the network**

## Application

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The SIGMASYS M multifunctional danger alarm control and indicating panel for loop and radial line technology is used in fire and/or intrusion alarm systems for parallel processing of fire, intrusion, and technical messages. Detector groups that can be parameterized to the specific customer, individual plain texts, and application-specific links and programs permit high flexibility with regard to optimum adaptation to the concrete application.

## Description

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The SIGMASYS M danger alarm control and indicating panel has a modular structure. This means that various alarm systems such as Sinteso FDnet, SIGMALOOP, Transliner Ringbus, pulse polling and limit monitoring can be operated together.

SIGMASYS M facilitates the display and processing of all danger messages in accordance with DIN VDE 0833 and also technical messages.

Cost-effective and customer-specific solutions for all safety-related requirements 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 M 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

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Detectors/detector groups:

- Individual addressing of detectors possible
- Free detector group formation, including across loops
- Up to 512 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 24 loops or up to 48 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

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- Up to 1700 address elements
- Up to 512 detector groups
- Up to 89 ranges
- 6 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

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Intrusion alarm systems:

- DIN VDE 0800 und DIN VDE 0833
- VdS Richtlinien für ÜMA/EMA2311
- Quality management system certified to ISO 9001

Fire alarm systems:

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

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VdS approval		
-	BMT	G297043, S297012
-	IMT	G197086 / Klasse C
DIBT approval		Z-6.5-1627



## Technical Data

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Mains connection	230 VAC /115 VAC (+10%/–15%)
Power supply unit	150 W
Output voltage	27.6 V DC at 25 °C
Number of loops	24/alternatively 48 spur lines (can also be mixed)
Loop addresses	Max. 128 per loop
Monitored alarm lines	Alternatively 48 limit value detection lines
Connectible detectors	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.
Dimensions (H x W x D) in mm	620 x 445 x 230
Housing color	Ergo gray (similar to RAL 7044)
Permissible ambient operating temperature	0 °C to +40 °C
Protection class (EN 60529)	IP40
Environment class (VdS 2110)	I
Relative humidity	<75%, short-term 95% without condensation
Weight	20 kg

## Ordering information

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Article	Number code
SIGMASYS M control and indicating panel	S24230-C107-A6
	Scope of delivery: Control and indicating panel with processor unit, interfaces and 150W power supply

<b>Article</b>	<b>Number code</b>
<b>Options</b>	
SIGMASYS FDnet connection	S24230-B150-A1
SIGMASYS MPC Module for SIGMALOOP	S24230-B103-A6
SIGMASYS APL20 Connection module for MPC	S24230-A123-A2
SIGMASYS GMG-S Module for limit monitoring system	S24230-A106-A2
SIGMASYS PMG-S Module for pulse polling system	S24230-A105-A1
SIGMASYS APL26 Connection module for GMG/PMG	S24230-A122-A1
SIGMASYS LPC Module for Transliner Ringbus	S24230-B139-A1
SIGMASYS TR-APL Connection module for LPC	S24230-A145-A1
SOC computer module Redundant computer module	S24230-A100-A4
Battery cabinet for 2x 12 V/ 65 Ah batteries	S24230-C109-A1

The control and indicating panel complies with the relevant standards and regulations.

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