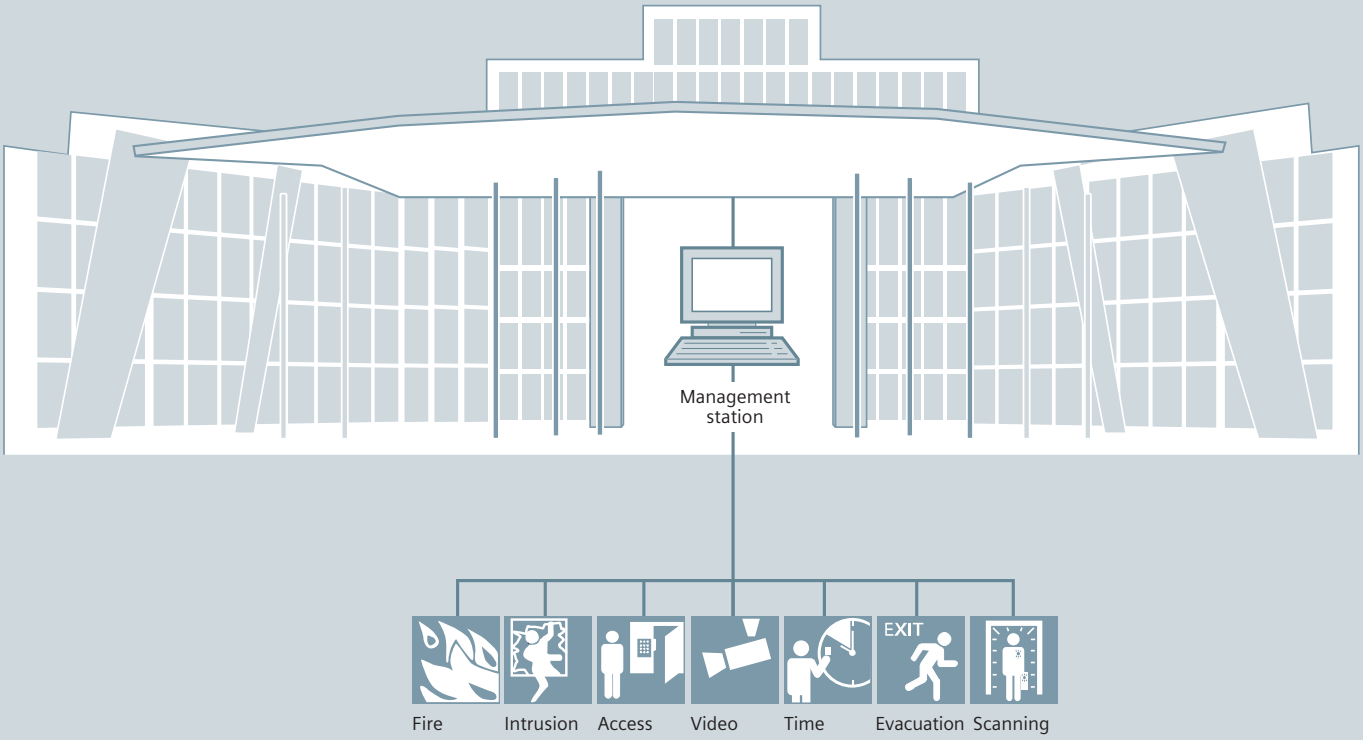
DMS8000 product catalog

Answers for infrastructure.

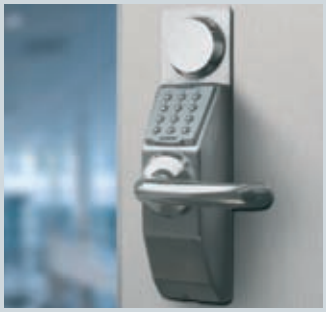
SIEMENS

Everything you need for fire safety and security

From fire protection and fire detection to safety and security – Siemens offers a comprehensive portfolio for security needs from one source.



Fire safety and security



Whatever your requirements, Siemens provides a comprehensive portfolio for all fire safety and security needs.

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MM8000 – the ideal solution for danger management

MM8000 enables centralized alarm management and supervision of a wide range of fire safety, electronic security, and control systems. All are displayed in a uniform and clearly structured manner. Alarms and messages are listed according to security-relevant priorities, so operators have all relevant information at a glance. And in case of an event, MM8000 guides the user step by step through predefined procedures. Thanks to a user-friendly engineering tool, MM8000 can be configured quickly and easily. Moreover, MM8000 is a highly flexible and scalable Danger Management Station that can be adapted to changing requirements any time.

■ **MM8000 can integrate the following subsystems:**
– Fire safety
– Intrusion detection
– Access control
– Video surveillance
– Building automation installations
– and other subsystems

■ **Connecting subsystems to MM8000 offers many benefits, among them are:**
– Central control and operation
– Interaction with other safety subsystems
– Easy navigation and quick alarm localization
– Guided event treatment
– History database

Type		Order No.
MM8000xxx	**MM8000 Danger Management Station**	**MM8000xxx**

The MM8000 danger management station provides a powerful solution for the centralized alarm management and supervision of a wide range of fire safety, security and control systems. It supports specifically fire, gas and intrusion detection, access control, video surveillance and building automation installations.

The MM8000 architecture allows the integration of Siemens fire safety, security and control systems as well as 3rd party solutions via standard interfaces.

Functionality
Complete overview of the actual state of technical installations in a building at any time.
Homogeneous and intuitive operation of the different subsystems.
Comprehensive guidance and support of the operator in case of an alarm.
Logging of all activities and powerful reporting possibilities.

Advantages
Safety: User guidance in case of an emergency guarantees that the right measures are taken.
Reliability: Based on the concept of autonomous subsystems and distributed control; possibility of redundant configurations.
Flexibility: Can be built and configured to fit the requirements of the customer.
Openness: OPC, BACnet and Modbus (via NK) interfaces for subsystem integration.
Scalability: MM8000 will easily grow to support more subsystems, disciplines and stations.

Features
Comfortable navigation through the system via graphical maps or object trees.
Advanced graphics including AutoCAD.
Automatic and/or manual alarm dispatching via e-mail, SMS and pagers.
Scheduler application for time-based actions.
Configurable interactions between different subsystems.
Macro editor for complex commands.
System security based on Microsoft Windows (combined login).
Flexible configuration of user access rights.
Support of dual monitor configurations.

System requirements	The MM8000 SW runs on a Microsoft Windows PC.
Ordering Information	Contact your local BT sales support representative for further information.
Data sheet	A6V10074451

Type		Order No.
MK8000OPCxxx	**MK8000 OPC Server**	**MK8000xxx**

The MK8000 OPC Server provides a standard access to a wide range of fire safety and security systems. With the MK8000 it is possible to integrate fire, gas and intrusion detection and access control systems into any central management station with an OPC client interface.

Features
- OPC Server interface
- Compliant to OPC Data Access 2.0x Specification
- Supports Tag browsing (IOPCBrowse ServerAddressSpace)
- Server attempts to renew lost connections
- Tag export function
- History log function
- MK8000 test client included
- OPC interface inspection utility included
- Free 2h Demo mode

System requirements	The MM8000 SW runs on a Microsoft Windows PC.
Ordering Information	Contact your local SBT sales support representative for further information.
Data sheet	A6V10062465

Type		Order No.
MT8000xxx	**MT8000 Management terminal**	**MT8000xxx**

The approved wall-mounted Danger Management Terminal MT8001 provides multi-discipline operation and offers management station functionality in a wall or desk-mountable cabinet. It provides a common user interface for Fire and Intrusion subsystems.
The MT8001 is a system terminal with a touch-screen user interface designed especially for rapid and accurate handling of events in emergency situations.
The low power requirements of the MT8001 enable it to be powered directly from a fire protection panel, although it may also be powered by a separate battery backup.
MT8000 Management Terminal Products family consists of the MT8001 Management Terminal HW, SW-licenses and accessories.

Features
Event treatment
Plant browser
History browser
Macro commands
PIN-controlled access

Operating system	Windows CE.Net
Display	10.4" TFT-Color-display (640x480 pixels)
Screen	Touch screen, Impact strength compliant with EN54-2
Storage	Compact Flash Card
Power consumption	max. 15 W
Input voltage	18.5 ... 31.0 VDC
Operating temperature	+4... +50 °C
Relative humidity	10... 95 %
Protection category	IP30
Cabinet dimensions (W x H x D)	424 x 200 x 64 mm
Approval	CE Vds-Certificate: G294042
Ordering Information	Contact your local SBT sales support representative for further information.
Data sheet	006952

Type		Order No.
MH8051	**MT8001 Control desk mounting** A mounting to install MT8001 as a control desk application Dimensions (W x H x D) 440 x 238 x 138 mm	**A6E600053**
MH8050/KS	**MT8001 Wall desk mounting** A mounting to install MT8001as a wall-mounted application. Dimensions (W x H x D) 550 x 330 x 75...90 mm	**A6E600051**
MH8053	**MT8001 19' rack mounting** Rack mounting option to install MT8001 in a 19" rack	**A6E600225**
MH8055	**MT8001 compact flash** 64 MB (expandable) flash card used to transfer the configuration from a service-PC to the MT8001	**A6E600301**

Type		Order No.
NK8000xxx	**NK8000 networks**	**NK8000__**

NK8000 is the network solution for connecting various safety and security units to the DMS8000 Management Station products (MM8000 Management Station, the MT8001 Management Terminal and the MK8000 OPC Server).
NK8000 connects the subsystems over serial connection to MT8001 systems and via Ethernet TCP/IP or BACnet/IP to the MM8000 and the MK8000. In addition NK8000 supports dial-up connections to MM8000 and MK8000 as backup connections.

The following NK822x products make up the NK8000 product family:
NK8222 Ethernet Port for a single subsystem
NK8223 Ethernet Port
NK8225 Ethernet Port with BACnet Gateway

The NK822x Ethernet Ports are supplied in a plastic housing for easy DIN-rail mounting.

Connectivity	Support for both locally and geographically distributed field units via LAN / WAN-TCP/IP networks and PSTN.
Interface	Up to 4 x RS232 lines 1x Ethernet IEEE 802.3, 10Base-T 1 x RS485 1 x LON: 1 x I2C
Interaction	Programmable interaction programs including single or multiple triggers (incoming events) and single or multiple effects (outgoing control actions).
Connectors	D-Sub 9 pin, female type (for serial and modem lines) RJ-45 connector for Ethernet Wieland 5-pin connector for power supply and LON
Connection cable	RS232 lines: two unshielded twisted pairs (Cat.3 UTP, max. 15 m) LON line: one unshielded twisted pair (Cat.4 UTP, 22AWG) Ethernet : standard cable (Cat.5 UTP, max. 100 m)
Power consumption	for NK822x.2 :6.34 W for fully equipped NK822x.CL4: 8.34 W
Input voltage	10... 33 VDC
Operating temperature	0... +50 °C
Storage temperature	-40... +55 °C
Relative humidity	10 to 90% non condensing
Protection category	IP20
Color housing/cover	Housing RAL7001 Cover RAL7035
Cabinet dimensions (W x H x D)	180 x 108 x 80 mm
Approval	CE
Data sheet	See Data sheets for NK822x

NK8222

Type			Order No.
NK8222..	**Ethernet Port**		**NK8222..**
	The NK8222 allows connection of a single safety or security subsystem to the NK8000 network and is best suited for distributed systems or geographical networks where only one subsystem has to be connected to a remote management system.		
	Subsystem	1	
	Expansion	DF8090 Power supply supervision module (external, on I2C bus) DF8000 I/O system (external, on RS485 IF) DF8020 8-relay output module (external, on I2C bus) DF8040 8-input module (external, on I2C bus) NK8021 Analog modem (external) NE8001 Wall-mountable, metallic cabinet with DIN-rail. Including pre-wired power supply unit	
	Approval	CE	
	Data sheet	A6V10062433	
NK8222.2	**Ethernet Port**		**A6E600089**
	As NK8222.. for technical details, but with the following differences:		
	Interface	1 Ethernet line for remote station 2 serial lines for local station/modem	
	Expansion	NH8010 NK822x LON board (internal)	
NK8222.CL2	**Ethernet Port**		**A6E600090**
	As NK8222.. for technical details, but with the following differences:		
	Interface	1 Ethernet line for remote station 2 serial lines for local station/modem 1 LON line for subsystem	

Type			Order No.
NK8223..	**Ethernet Port**		**NK8223..**
	The NK8223 allows connection of multiple SBT and 3rd party subsystems to the NK8000 network, and is best suited for local systems, campus-size or wide area extension systems, where more than one subsystem has to be connected, or system extensions with additional subsystems are expected.		
	Subsystem	more than 1	
	Expansion	DF8090 Power supply supervision module (external, on I2C bus) DF8000 I/O system (external, on RS485 IF) DF8020 8-relay output module (external, on I2C bus) DF8040 8-input module (external, on I2C bus) NK8021 Analog modem (external) NE8001 Wall-mountable, metallic cabinet with DIN-rail. Including prewired power supply unit	
	Approval	CE	
	Data sheet	A6V10062431	
NK8223.2	**Ethernet Port**		**A6E600005**
	As NK8223.. for technical details, but with the following differences:		
	Interface	1 x Ethernet line for remote station 2 x serial lines for subsystems/local station/modem	
	Expansion	NH8002 2 serial port add-on board (internal) NH8010 NK822x LON board (internal)	
NK8223.4	**Ethernet Port**		**A6E600006**
	As NK8223.. for technical details, but with the following differences:		
	Interface	1 x Ethernet line for remote station 4 x serial lines for subsystems/local station/modem	
	Expansion	NH8010 LON add-on board (internal)	
NK8223.CL2	**Ethernet Port**		**A6E600007**
	As NK8223.. for technical details, but with the following differences:		
	Interface	1 x Ethernet line for remote station 2 x serial lines for subsystems/local station/modem 1 x LON line for subsystems	
	Expansion	NH8002 2 serial port add-on board (internal)	

Type			Order No.
NK8223.CL4	**Ethernet Port**		**A6E600008**
	As NK8223.. for technical details, but with the following differences:		
	Interface	1 x Ethernet line for remote station 4 x serial lines for subsystems/local station/modem 1 x LON line for subsystems	

Type			Order No.
NK8225..	**Ethernet Port with BACnet Gateway**		**NK8225..**
	The NK8225 offers the same connectivity capabilities as the NK8223. In addition NK8225 provides BACnet connectivity between NK8225 for network-wide interactions.		
	Subsystem	more than 1	
	Expansion	DF8090 Power supply supervision module (external, on I2C bus) DF8000 I/O system (external, on RS485 IF) DF8020 8-relay output module (external, on I2C bus) DF8040 8-input module (external, on I2C bus) NK8021 Analog modem (external) NE8001 Wall-mountable, metallic cabinet with DIN-rail. Including pre-wired power supply unit	
	Approval	CE	
	Data sheet	A6V10062445	
NK8225.2	**Ethernet Port with BACnet Gateway**		**A6E600303**
	As NK8225.. for technical details, but with the following differences:		
	Interface	1 x Ethernet line for remote station 2 x serial lines for subsystems/local station/modem	
	Expansion	NH8002 2 serial port add-on board (internal) NH8010 LON add-on board (internal)	
NK8225.4	**Ethernet Port with BACnet Gateway**		**A6E600304**
	As NK8225.. for technical details, but with the following differences:		
	Interface	1 x Ethernet line for remote station 2 x serial lines for subsystems/local station/modem	
	Expansion	NH8010 LON add-on board (internal)	
NK8225.CL2	**Ethernet Port with BACnet Gateway**		**A6E600305**
	As NK8225.. for technical details, but with the following differences:		
	Interface	1 x Ethernet line for remote station 4 x serial lines for subsystems/local station/modem	
	Expansion	NH8002 2 serial port add-on board (internal)	

Type			Order No.
NK8225.CL4	**Ethernet Port with BACnet Gateway** As NK8225.. for technical details, but with the following differences:		**A6E600306**
	Interface	1 x Ethernet line for remote station 4 x serial lines for subsystems/local station/modem 1 x LON line for subsystems	

Type		Order No.
NH8002	**2 serial port add-on board for NK822x** Add-on board for expansion of NK822x.2 and NK822x.CL2 with 2 serial ports. Dimensions (W x H x D) 120 x 58 x 15 mm Approval CE	**A6E600013**
NH8010	**LON board for NK822x** Add-on board for expansion of NK822x.2 and NK822x.4 with a LON line for the connection of Guarto CS6 intrusion detection systems. Dimensions (W x H x D) 60 x 96 25 mm Approval CE	**A6E600014**
NH8052	**NH8052; 520-I CPU mod. NK8225; F/W inst.** DIMM-PC module for upgrading NK8223 Ethernet Ports to NK8225 Ethernet Ports with BACnet Gateway. Operating current 0.4A @ 5 V Dimensions (W x H x D) 40 x 67 x 6 mm Approval CE	**A6E600307**
NZ8201	**NK822x Mounting kit for CS11** Card holders and cable set for installing NK822x in CS11 or CS440	**A6E600185**

Type		Order No.
NZ8202	**NK822x Mounting kit for CS6** Mounting plate, card holders and cable set for installing NK822x in CS6	**A6E600186**
		
NZ8203	**NK822x Mounting kit for SI410** Mounting plate, card holders and cable set for installing NK822x in SI410 Sintony (standard or Scandinavian housings) Further options: Cable for connecting SI410 to NK822x must be ordered separately from the intrusion product range (80064100001 SAQ18 Cable link X25 SAQ18).	**A6E600187**
		
DF8090	**Power supply supervision module for I2C bus** Optional module for supervising the NK822x power supply and detecting power failures and battery low conditions. It is not needed when NK822x is installed in a fire or intrusion control unit, where power supply is already supervised. Operating voltage 12 VDC Power consumption 0.01A @ 13.8 VDC Dimensions (W x H x D) 75x45x48 mm	**A6E600010**
		

Type		Order No.
DF8000xxx	**DF8000 I/O system (formerly CF9000)** The DF8000 unit is a flexible I/O system made up of DIN rail-mounted modules that can be combined in local units so as to concentrate from 4 to 48 I/O points, distributed on a RS-485 line. DF8000 detects any input status change, and transmits this information to the supervising host. The individual outputs are controlled according to the commands sent by the supervising station. The communication line to and from the supervisor is fully monitored. DF8000 can be used to interface technological signals or to interface with control panels. Input voltage 10... 33 VDC Power consumption 0.01A @ 13.8 VDC Data sheet A6V10081184	**DF8000xxx**
DF8003	**CPU Module for DF8000 I/O system**  DF8003 is a CPU module, equipped with a RS-485 interface that can be connected to a Bus and to the supervision centre via NK822x Ethernet Ports. It controls up to 6 DF80xx I/O modules on a local I2C Bus. Dimensions (W x H x D) 75x50x48 mm Approval CE	**S54461-C1-A1**
DF8020	**8-relay digital outputs module**  Module for 8 non supervised outputs with NO/NC relays included Max 1 module can be directly connected to NK822x. For more connectivity (as well as for supervised inputs), it is necessary to use a DF8003 CPU on one of the serial connections. Dimensions (W x H x D) 75x45x48 mm Approval CE	**A6E600195**
DF8040	**8-digital inputs module**  Module with 8 none supervised inputs with galvanic isolation for acquiring digital contacts. Max 2 modules can be directly connected to NK822x. For more connectivity (as well as for supervised inputs), it is necessary to use a DF8003 CPU on one of the serial connections. Operating current Max. 0.024A @ 12V 0.073A @ 27V Dimensions (W x H x D) 75x45x48 mm Approval CE	**A6E600194**

Type		Order No.
DF8045	**4-supervised digital input module** Module with 4 supervised, normally closed inputs with optical isolation (only via DF8003 CPU module) Operating current: Max. 0.03A @ 12V, 0.03A @ 27V Dimensions (W x H x D): 75x45x48 mm Approval: CE	**A6E600196**
DF8046	**4-supervised digital input module** Module with 4 supervised, normally open inputs with optical isolation (only via DF8003 CPU module) Operating current: Max. 0.03A @ 12V, 0.03A @ 27V Dimensions (W x H x D): 75x45x48 mm Approval: CE	**A6E600197**
NE8001	**Housing for NK822x** Metallic cabinet for easy wall-mounting, including a DIN rail and a pre-wired power supply for NK822x and local I/O Mains voltage: 100... 240 VAC Mains fuse: F3.15AL / 250V / 3-pole screw connector Power supply: 60 W Operating temperature: 0... +50 °C °C Storage temperature: -40... +55 °C Relative humidity: 10... 95 % (no condensation) Protection category: IP42 Color housing/cover: light grey, RAL 7035 Cabinet dimensions (W x H x D): 390 x 450 x 150 mm Approval: CE Data sheet: A6V10062421 Expansion: 1x NK822x, 2x DF8040 modules (connected via I2C), 1x DF8020 module (connected via I2C), 1x NK8021 Analog modem	**A6E600066**

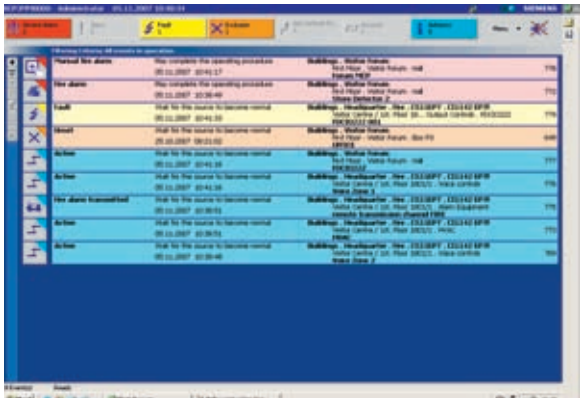
Type		Order No.
NK8021	**NK8021 Analog Modem**	**A6E600245**

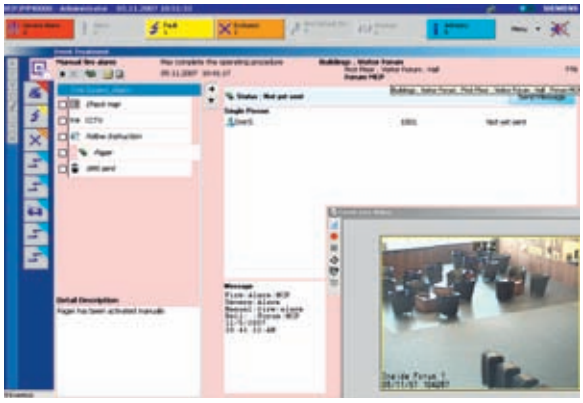
Analog modem for public switched telephone network (PSTN) with V24/V28 Serial Interface.
Compatible to the following standards: V.90, V.34+, V.34, V.32bis, V.32, V.22bis, V.22, V.21

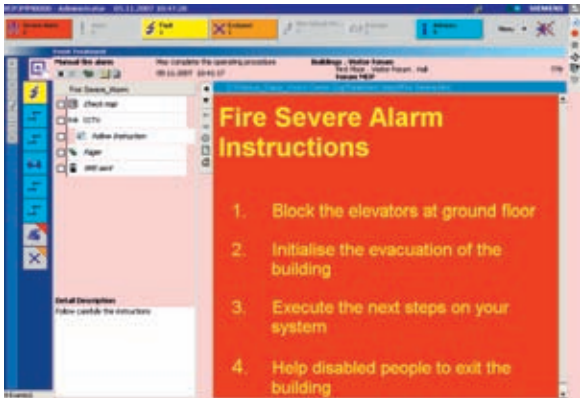
Input voltage	5 VDC or 12 VDC
Power consumption	0.2A @ 12 VDC
Operating temperature	0... +50 °C °C
Relative humidity	20... 80% non condensing
Dimensions (W x H x D)	100 x 150 x 18 mm
Approval	CE
Data sheet	A6V10075902

MM8000 Alarm Scenario

Customization of operating workflow adapted to organizational and executive workflow of customers company and facility.







1. Select the event

– Overview in every situation:
Pre-defined operating procedures provide step-by-step access to the required detailed information.

– Easy and clear event presentation:
If an event occurs, an event entry is added to the event list, the corresponding lamp is activated, the accompanying counter is incremented, and an acoustic signal sounds. The event list is the starting point for the event handling procedure.

2. Acknowledge the event

– Rapid and guided operation:
The MM8000 guides the user in the easiest way and supports in making decisions. It allows him to concentrate on the main steps, and in this way prevents potential danger from escalating to catastrophes.

3. Follow the recommended treatment procedure (free treatment or guided treatment)

– The correct action at the right moment:
The individual steps can be freely defined – Specifically adapted to the requirements of the installation and its organization.

– After selecting an event for example...
- the relevant part of the building plan is displayed, the alarm source is marked up
- monitoring can be switched on (live image display, recording, playback)
- the security guard, the fire brigade or police department can be notified by phone, pager or SMS
- an instruction page presents information about the necessary intervention steps
- the pre-defined event-report can be filled in

→ Investigate and clear the cause of the alarm

4. Reset the alarm

5. Attach a note if desired

6. Close the event, or suspend it

MM8000 creates clarity and overview with an easy navigation from complex to detailed information, allows automatic logging and simple report creation.

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

www.siemens.com/dms8000