

SIEMENS

***MK8000 OPC Server Interface
Specification for SPC***

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SPC

SPC is an intrusion detection panel that supports both wired and wireless intrusion devices and a LAN interface. The SPC Controller is equipped with eight on-board wired zones and six programmable outputs. The SPC control unit is integrated in MM8000 via the Ethernet interface using the Europlex Datagram Protocol (EDP).

Summary view

SPC Model

SPC Application	Obj. Name: INNOAPMN	NT ID: 1
Physical Tree	Obj. Name: UDUDOLMN	NT ID: 2
System	Obj. Name: INNOORGE	NT ID: 20
Area	Obj. Name: INNOARGE	NT ID: 21
Alarm Zone	Obj. Name: INNOZOG	NT ID: 22
Fire Zone	Obj. Name: FINOZOG	NT ID: 23
Emergency exit Zone	Obj. Name: INNOZOEE	NT ID: 24
EntryExit Zone	Obj. Name: INBUZOG	NT ID: 25
Line Zone	Obj. Name: INNOZO24	NT ID: 26
Panic Alarm Zone	Obj. Name: INPAZOG	NT ID: 27
Hold-up Zone	Obj. Name: INNOZOMA	NT ID: 28
Tamper Zone	Obj. Name: INTAZOG	NT ID: 29
Control Zone	Obj. Name: INCOZOG	NT ID: 30
Medical Zone	Obj. Name: INMEZOG	NT ID: 31
Exit Term Zone	Obj. Name: INBUZOOT	NT ID: 59
Mapping gates	Obj. Name: UDUDOLMN	NT ID: 52
Mapping gate	Obj. Name: INNOOULO	NT ID: 53
Doors	Obj. Name: UDUDOLMN	NT ID: 60
Door	Obj. Name: ACCODRDM	NT ID: 61
Logical Tree	Obj. Name: UDUDOLMN	NT ID: 3
Main Board	Obj. Name: INNOCCGE	NT ID: 40
X-BUS Devices	Obj. Name: UDUDOLMN	NT ID: 32
I/O Expander	Obj. Name: INNOIBET	NT ID: 50
Analyzed I/O Expander	Obj. Name: INNOIBSV	NT ID: 51

SPC Application - (INNOAPMN)

Multistate	Commands										
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man

1000 Quiet ✓

No abnormal conditions present.

1351 Anomaly Ack ✓

The control unit has a new date and time. The event has been acknowledged.

1369 Not Aligned ✓

The control unit is not aligned to the field.

1370 Alignment In Progress

The alignment fase is in progress.

1999 Fault Ack

The Control unit is not reacheable or some critical fault are detected. The event has been acknowledged.

Physical Tree - (UDUDOLMN)

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

1000 Quiet

No abnormal conditions present.

Logical Tree - (UDUDOLMN)

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

1000 Quiet

No abnormal conditions present.

System - (INNOORGE)

The `System` object represents the possible general conditions related to the SPC control unit.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

402 Alarm & Tamper Unreset ✓

This event is the combination of the Alarm and Tamper state. The event should now be reset by the operator.

502 Alarm Unreset ✓

The duress alarm has been detected. The event should now be reset by the operator.

902 Tamper Unreset ✓

The bell tamper has been detected. The event should now be reset by the operator.

1000 Quiet

No abnormal conditions present.

1351 Anomaly Ack

The event has been acknowledged.

1352 Anomaly Unack ✓

The event should now be acknowledged by the operator.

Area - (INNOARGE)

The Area usually controls the alarm organization (Set / Unset / Partset). Further, it provides the functionality for switching associated zones (inhibit, deinhibit, isolate, deisolate, test etc.).

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

1000 Quiet ✓ ✓ ✓

No abnormal conditions present.

1300 Disarmed ✓ ✓ ✓

The Area is in day mode.

1316 Manual ✓ ✓ ✓

The Area is PartBset.

1326 Blocked ✓ ✓ ✓

The Area is PartAset.

1351 Anomaly Ack ✓ ✓ ✓

The event has been acknowledged.

1352 Anomaly Unack ✓ ✓ ✓ ✓

The event should now be acknowledged by the operator.

Alarm Zone - (INNOZOGÉ)

The ALARM zone type is the default zone type setting and is also the most frequently used zone type for standard installations.

		Commands											
		1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status
500	Alarm Unack	✓			✓				✓				
The zone is in alarm. The event should now be acknowledged by the operator.													
502	Alarm Unreset		✓		✓				✓				
The zone is in alarm. The event should now be reset by the operator.													
510	Alarm & Fault Unack	✓			✓				✓				
This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator													
512	Alarm & Fault Unreset		✓		✓				✓				
This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.													
1000	Quiet				✓				✓				
No abnormal conditions present.													
1300	Disarmed			✓					✓				
The zone has been inhibited.													
1351	Anomaly Ack				✓				✓				
The zone is not ready. The event has been acknowledged.													
1400	Disconnected				✓					✓			
The zone has been isolated.													
1998	Fault Unreset		✓		✓				✓				
The zone is in fault. The event should now be reset by the operator.													

2000 Fault Unack



The zone is in fault. The event should now be acknowledged by the operator.

Fire Zone - (FINOZOG)

Fire zones are 24-hour zones for fire monitoring and their response is independent of panel operating mode. When any fire zone opens, a full alarm is generated and the FIRE output type is activated. If the 'Report only' attribute is set then activation will only be reported to the central station and a Full Alarm will not be generated.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

500 Alarm Unack ✓ ✓

The zone is in alarm. The event should now be acknowledged by the operator.

502 Alarm Unreset ✓ ✓

The zone is in alarm. The event should now be reset by the operator.

510 Alarm & Fault Unack ✓ ✓

This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator

512 Alarm & Fault Unreset ✓ ✓

This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.

1000 Quiet ✓

No abnormal conditions present.

1351 Anomaly Ack ✓

The zone is not ready. The event has been acknowledged.

1400 Disconnected ✓

The zone has been isolated.

1998 Fault Unreset ✓ ✓

The zone is in fault. The event should now be reset by the operator.

2000 Fault Unack ✓ ✓

The zone is in fault. The event should now be acknowledged by the operator.

Emergency exit Zone - (INNOZOE)

This is a special type of 24-hour zone for use with fire exit doors that should never be opened. In Unset mode, an activation of this zone will trip the Fire-X output, causing alert messages and sounding the Keypad buzzer and internal sounder.

Multistate		Commands											
		1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status
500	Alarm Unack	✓			✓				✓				
The zone is in alarm. The event should now be acknowledged by the operator.													
502	Alarm Unreset		✓		✓				✓				
The zone is in alarm. The event should now be reset by the operator.													
510	Alarm & Fault Unack	✓			✓				✓				
This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator													
512	Alarm & Fault Unreset		✓		✓				✓				
This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.													
1000	Quiet				✓				✓				
No abnormal conditions present.													
1300	Disarmed			✓					✓				
The zone has been inhibited.													
1351	Anomaly Ack				✓				✓				
The zone is not ready. The event has been acknowledged.													
1400	Disconnected				✓					✓			
The zone has been isolated.													
1998	Fault Unreset		✓		✓				✓				
The zone is in fault. The event should now be reset by the operator.													

2000 Fault Unack



The zone is in fault. The event should now be acknowledged by the operator.

EntryExit Zone - (INBUZOG)

This object represent the following SPC object: ENTRY/EXIT: The entry/exit zone type should be assigned to all zones on an entry/exit route (i.e. a front door or other access area to the building or premises). This zone type provides an entry and exit time delay.

		Commands											
		1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status
500	Alarm Unack	✓			✓				✓				
The zone is in alarm. The event should now be acknowledged by the operator.													
502	Alarm Unreset		✓		✓				✓				
The zone is in alarm. The event should now be reset by the operator.													
510	Alarm & Fault Unack	✓			✓				✓				
This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator													
512	Alarm & Fault Unreset		✓		✓				✓				
This event is the combination of the Alarm and Fault state.The event should now be reset by the operator.													
1000	Quiet				✓				✓				
No abnormal conditions present.													
1300	Disarmed			✓					✓				
The zone has been inhibited.													
1351	Anomaly Ack				✓				✓				
The zone is not ready. The event has been acknowledged.													
1400	Disconnected				✓					✓			
The zone has been isolated.													
1998	Fault Unreset		✓		✓				✓				
The zone is in fault. The event should now be reset by the operator.													

2000 Fault Unack



The zone is in fault. The event should now be acknowledged by the operator.

Line Zone - (INNOZO24)

Telemetry line monitoring input. This is usually used in conjunction with a telephone line health output from an external digital dialer or direct line communication system. When activated, it produces a local alarm in Unset mode and a full alarm in all other modes.

	Multistate	Commands											
		1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status
500	Alarm Unack	✓			✓				✓				
The zone is in alarm. The event should now be acknowledged by the operator.													
502	Alarm Unreset		✓		✓				✓				
The zone is in alarm. The event should now be reset by the operator.													
1000	Quiet				✓				✓				
No abnormal conditions present.													
1300	Disarmed			✓					✓				
The zone has been inhibited.													
1351	Anomaly Ack				✓				✓				
The zone is not ready. The event has been acknowledged.													
1400	Disconnected				✓					✓			
The zone has been isolated.													

Panic Alarm Zone - (INPAZOGE)

Panic Alarm zone types are active on a 24-hour basis and activated via a panic button. When a Panic zone is activated it will report a Panic event, independent of panel arming mode. All activation's are logged and reported if log attribute is active. If the SILENT attribute is set then the alarm will be silent (Activation is reported to ARC), otherwise it will generate a Full alarm.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

500 Alarm Unack ✓ ✓

The zone is in alarm. The event should now be acknowledged by the operator.

502 Alarm Unreset ✓ ✓

The zone is in alarm. The event should now be reset by the operator.

510 Alarm & Fault Unack ✓ ✓

This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator

512 Alarm & Fault Unreset ✓ ✓

This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.

1000 Quiet ✓

No abnormal conditions present.

1351 Anomaly Ack ✓

The zone is not ready. The event has been acknowledged.

1400 Disconnected ✓

The zone has been isolated.

1998 Fault Unreset ✓ ✓

The zone is in fault. The event should now be reset by the operator.

2000 Fault Unack ✓ ✓

The zone is in fault. The event should now be acknowledged by the operator.

Hold-up Zone - (INNOZOMA)

Hold-up zone types are active on a 24-hour basis and activated via a button. When a Hold-up zone is activated it will report a Hold-up event, independent of panel arming mode. If the SILENT attribute is set then the alarm will be silent, otherwise it will generate a full alarm. All activations are logged and reported if log attribute is active.

	Multistate	Commands											
		1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status
500	Alarm Unack	✓							✓				
The zone is in alarm. The event should now be acknowledged by the operator.													
502	Alarm Unreset		✓						✓				
The zone is in alarm. The event should now be reset by the operator.													
510	Alarm & Fault Unack	✓							✓				
This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator													
512	Alarm & Fault Unreset		✓						✓				
This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.													
1000	Quiet								✓				
No abnormal conditions present.													
1351	Anomaly Ack								✓				
The zone is not ready. The event has been acknowledged.													
1400	Disconnected									✓			
The zone has been isolated.													
1998	Fault Unreset		✓						✓				
The zone is in fault. The event should now be reset by the operator.													
2000	Fault Unack	✓							✓				
The zone is in fault. The event should now be acknowledged by the operator.													

Tamper Zone - (INTAZOGE)

When open in the Unset mode, a Local Alarm is generated. If the system is Full Set, a Full alarm is generated. If the Security Grade of the system is set to Grade 3, then an engineer code is required to restore the alarm.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

500 Alarm Unack ✓ ✓

The zone is in alarm. The event should now be acknowledged by the operator.

502 Alarm Unreset ✓ ✓

The zone is in alarm. The event should now be reset by the operator.

1000 Quiet ✓

No abnormal conditions present.

1351 Anomaly Ack ✓

The zone is not ready. The event has been acknowledged.

1400 Disconnected ✓

The zone has been isolated.

Control Zone - (INCOZOG)

This object represents various zones: TECHNICAL: controls a dedicated tech zone output. When a tech zone changes state, the tech zone output follows. KEYARM: normally used in conjunction with a key lock mechanism. It will SET the system/area/common areas when OPENED and UNSET the System/Area/Common Areas when CLOSED. SHUNT: when opened, it inhibits all zones with shunt attribute set. This operation applies for both SET and UNSET modes. As soon as the shunt zone is closed, the zones with the shunt attribute set will become un-inhibited again. X-SHUNT: inhibits the next consecutive zone when opened. This operation applies for both SET and UNSET modes. As soon as the x-shunt zone type is closed, the next zone becomes un-inhibited again.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

950 Active

The zone has been activated.

1000 Quiet

✓

No abnormal conditions present.

1351 Anomaly Ack

✓

The zone is not ready. The event has been acknowledged.

1400 Disconnected

✓

The zone has been isolated.

1998 Fault Unreset

✓

✓

The zone is in fault. The event should now be reset by the operator.

2000 Fault Unack

✓

✓

The zone is in fault. The event should now be acknowledged by the operator.

Medical Zone - (INMEZOG)

This zone type is used in conjunction with radio or hardwired medical switches. Activation in any mode activates the medical digital communicator output (unless 'Local attribute' is set) cause the Keypad buzzer to sound (unless 'Silent attribute' is set) and display the Keypad message " MEDICAL ZONE X " where X is the zone number.

	Multistate	Commands											
		1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status
500	Alarm Unack	✓							✓				
The zone is in alarm. The event should now be acknowledged by the operator.													
502	Alarm Unreset		✓						✓				
The zone is in alarm. The event should now be reset by the operator.													
510	Alarm & Fault Unack	✓							✓				
This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator													
512	Alarm & Fault Unreset		✓						✓				
This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.													
1000	Quiet								✓				
No abnormal conditions present.													
1351	Anomaly Ack								✓				
The zone is not ready. The event has been acknowledged.													
1400	Disconnected									✓			
The zone has been isolated.													
1998	Fault Unreset		✓						✓				
The zone is in fault. The event should now be reset by the operator.													
2000	Fault Unack	✓							✓				
The zone is in fault. The event should now be acknowledged by the operator.													

X-BUS Devices - (UDUDOLMN)

The X-BUS interface provides for the connection of Expanders to the SPC Controller.
The X-BUS can be configured in Closed Loop or in Open Loop.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

1000 Quiet

No abnormal conditions present.

Lock Supervision Zone - (INCOZOLM)

An activated "Lock supervision" input prevents the assigned area from setting (e.g. door must be closed and locked before setting is possible). No effect if area is set.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status
1000 Quiet				✓				✓				
No abnormal conditions present.												
1300 Disarmed			✓					✓				
The zone has been inhibited.												
1351 Anomaly Ack				✓				✓				
The zone is not ready. The event has been acknowledged.												
1400 Disconnected				✓					✓			
The zone has been isolated.												

Main Board - (INNOCGE)

The Main Board provides the following features: - 8 on-board inputs; - 6 output; - 1 Ethernet interface; - 1 X-BUS communication interface

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

902 Tamper Unreset



The cabinet tamper has been detected. The event should now be reset by the operator.

1000 Quiet

No abnormal conditions present.

Main Board Power Supply - (INNOPSGE)

Power supply on the Main Board.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

1000 Quiet

No abnormal conditions present.

1998 Fault Unreset



The Main Board Power Supply is in fault. The event should now be reset by the operator.

I/O Expander - (INNOIBET)

The I/O Expander is an expansion module, this can be wired or wireless and of the following types:

- 8 Input / 2 Output
- 8 Output

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

1000 Quiet

No abnormal conditions present.

Analyzed I/O Expander - (INNOIBSV)

The I/O Expander is an expansion module, this can be wired or wireless and of the following types:

- 8 Input / 2 Output
- 8 Output

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

1000 Quiet

No abnormal conditions present.

Mapping gates - (UDUDOLMN)

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

1000 Quiet

No abnormal conditions present.

Mapping gate - (INNOUULO)

User commandable outputs. They can be mapped on the unit physical outputs.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

950 Active



The Mapping Gate has been activated.

1000 Quiet



No abnormal conditions present.

Exit Term Zone - (INBUZOOT)

This object represent the following SPC object: EXIT TERMINATOR: An Exit Terminator zone type is used in conjunction with a push button on an exit route and acts as an exit terminator – that is, it provides an infinite exit delay period and will not allow the system to set until the button is pressed.

	Multistate	Commands											
		1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status
500	Alarm Unack	✓							✓				
The zone is in alarm. The event should now be acknowledged by the operator.													
502	Alarm Unreset		✓						✓				
The zone is in alarm. The event should now be reset by the operator.													
510	Alarm & Fault Unack	✓							✓				
This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator													
512	Alarm & Fault Unreset		✓						✓				
This event is the combination of the Alarm and Fault state.The event should now be reset by the operator.													
1000	Quiet								✓				
No abnormal conditions present.													
1351	Anomaly Ack								✓				
The zone is not ready. The event has been acknowledged.													
1400	Disconnected									✓			
The zone has been isolated.													
1998	Fault Unreset		✓						✓				
The zone is in fault. The event should now be reset by the operator.													
2000	Fault Unack	✓							✓				
The zone is in fault. The event should now be acknowledged by the operator.													

Doors - (UDUDOLMN)

This object represent the following SPC objects:

ENTRY/EXIT: The entry/exit zone type should be assigned to all zones on an entry/exit route (i.e. a front door or other access area to the building or premises). This zone type provides an entry and exit time delay

Multistate	Commands											
	1-Arm An infinite exit delay is provided when the button is pressed.	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

1000 Quiet

No abnormal conditions present.

Door - (ACCODRDM)

SPC door object. This kind of object is used for access control system.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status
401 Alarm & Tamper Ack						✓				✓	✓	
This event is the combination of the Alarm and Tamper state. The event has been acknowledged.												
402 Alarm & Tamper Unreset		✓				✓				✓	✓	
This event is the combination of the Alarm and Tamper state. The event should now be reset by the operator.												
501 Alarm Ack						✓				✓	✓	
The door has been forced. The event has been acknowledged.												
502 Alarm Unreset		✓				✓				✓	✓	
The door has been forced. The event should now be reset by the operator.												
901 Tamper Ack						✓				✓	✓	
The door has been left open. The event has been acknowledged.												
902 Tamper Unreset		✓				✓				✓	✓	
The door has been left open. The event should now be reset by the operator.												
950 Active										✓	✓	
The Open Temporary command has been issued.												
1000 Quiet						✓				✓	✓	
No abnormal conditions present. The command `Active` open the door momentarily.												
1316 Manual						✓	✓			✓		
The door is permanent unlocked.												

1326 Blocked



The door is permanet locked.

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