

**SIEMENS**

***MK8000 OPC Server Interface  
Specification for CC60***

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## CC60

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The CC60 gas detection system represents the current generation of the SIEMENS gas detection technology.

The control unit comprises up to 56 detectors that can be assigned to any of max. 56 zones. The max. 8 x 32 relays can be activated only via control zones. Like the detectors, the control zones also distinguish between the alarm types warning, pre-alarm, and gas alarm (subsequently referred to only as "alarm"). For an alarm to be triggered, a certain number of detectors affiliated with the zone must be in the corresponding alarm state.

There are also collective alarms and fault relays on the CC60.

The alarm type "alarm" is evaluated subject to the CAC (Cerberus Alarm Concept). That is, it triggers a general internal alarm or a remote alarm only after expiration of a safety delay V1 / V2 in accordance with the day/night organisation.

GRN - V1.02 - Added Gas Element virtual properties propagation on the Logical tree objects (Gas Zone, Gas Sector)

## Cc60 Application - ( GSNOAPMN )

The `CC60 Application` object represents the entire CC60 and the geographical area it covers.

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 ✓

1351 Anomaly Ack ✓

At least one part of the control unit has been disconnected.

1369 Not Aligned

The control unit is not aligned to the field.

1370 Alignment In Progress

The alignment phase is in progress.

1998 Fault Unreset ✓ ✓

At least one fault present in the system (unreset)

1999 Fault Ack

At least one fault present in the system (acknowledged)

2000 Fault Unack ✓ ✓

At least one fault present in the system (unacknowledged)

2051 Vitality Fault

The control unit transmits a presence telegram every 30s (or 60s) and these telegrams are supervised by the OPC-server. A Vitality Fault indicates that communication to the control unit has been lost.

**Control unit - ( HWNOCCUD )**

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The `Control unit` object presents the possible faulty conditions related to the CC60 control unit and to the general health of the physical subsystem.

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

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1999 Fault Ack

Power source fault, for example, asymmetry of the batteries, battery voltage too low, defective fuse in main operation or power supply in battery mode. (Acknowledged)

2000 Fault Unack ✓

Power source fault, for example, asymmetry of the batteries, battery voltage too low, defective fuse in main operation or power supply in battery mode. (Unacknowledged)

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## Alarm teletransmission - ( GSNORDAL )

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The C60 can be configured to automatically transmit an alarm to the fire brigade (or similar). This object indicates whether such a transmission has been activated or not.

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

946 Active Unack

Outgoing alarm active (unacknowledged)

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947 Active Ack

Outgoing alarm active (acknowledged)

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1000 Quiet

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## Terminal - ( HWNOCTGE )

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This object represents the health of the terminals connected to the CC60

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

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1999 Fault Ack

Terminal fault (acknowledged)

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### Service port - ( HWCMLIGE )

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The CC60 allows you to connect a service PC. This object gives information whether such a PC is connected or not.

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

Service port has been activated.

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1000 Quiet

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**Gas element - ( GSDEDEEL )**

This object represents the gas detection device (gas element)

		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	✓							✓				
Detector alarm active (unacknowledged)													
502	Alarm Unreset		✓						✓				
Detector alarm active (unreset)													
510	Alarm & Fault Unack	✓							✓				
Detector alarm active and contemporary also fault activated by detection device (unacknowledged)													
511	Alarm & Fault Ack								✓				
Detector alarm active and contemporary also fault activated by detection device (acknowledged)													
512	Alarm & Fault Unreset		✓						✓				
Detector alarm active and contemporary also fault activated by detection device (unreset)													
800	Prealarm Unack	✓							✓				
Detector pre-alarm or warning active (unacknowledged)													
802	Prealarm Unreset		✓						✓				
Detector pre-alarm or warning active (unreset)													
810	Prealarm & Fault Unack	✓							✓				
Detector pre-alarm or warning active and contemporary also fault activated by detection device (unacknowledged)													
811	Prealarm & Fault Ack								✓				
Detector pre-alarm or warning active and contemporary also fault activated by detection device (acknowledged)													

812	Prealarm & Fault Unreset	✓	✓
Detector pre-alarm or warning active and contemporary also fault activated by detection device (unreset)			
1000	Quiet	✓	✓
1100	Test	✓	✓
Test mode (valid for pre-alarm, warning & maintenance/revision)			
1111	Test-Alarm Ack	✓	✓
Alarm in test mode initiated			
1400	Disconnected	✓	✓
Detection device is switched off			
1999	Fault Ack	✓	✓
Fault activated by detection device (acknowledged)			

**Output - ( BSCOOUGE )**

Up to 16 outputs can be configured per output board. This object represents an 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

950 Active

✓

Control contacts are activated

1000 Quiet

✓

1999 Fault Ack

✓

Control contact fault (acknowledged)

2000 Fault Unack

✓

✓

Control contact fault (unacknowledged)

**Gas sector - ( GSESEGE )**

The gas sector comprises all functions related to the measurement data acquisition and alarm processing.

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	✓													
Outgoing alarm in day mode (unacknowledged)															
502	Alarm Unreset		✓		✓										
Outgoing alarm in day mode (unreset)															
510	Alarm & Fault Unack	✓			✓										
Outgoing alarm in day mode and contemporary occurrence of a fault in a device (unacknowledged)															
511	Alarm & Fault Ack				✓										
Outgoing alarm in day mode and contemporary occurrence of a fault in a device (acknowledged)															
512	Alarm & Fault Unreset		✓		✓										
Outgoing alarm in day mode and contemporary occurrence of a fault in a device (unreset)															
800	Prealarm Unack	✓			✓										
General internal alarm impending (Day) (unacknowledged)															
802	Prealarm Unreset		✓		✓										
General internal alarm impending (Day) (unreset)															
810	Prealarm & Fault Unack	✓			✓										
General internal alarm impending (Day) and contemporary occurrence of a fault in a device (unacknowledged)															
811	Prealarm & Fault Ack				✓										
General internal alarm impending (Day) and contemporary occurrence of a fault in a device (acknowledged)															

812 Prealarm & Fault Unreset ✓ ✓

General internal alarm impending (Day) and contemporary occurrence of a fault in a device (unreset)

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1000 Quiet ✓

1300 Disarmed ✓

The Alarm organisation (Day/Night) of the Gas sector is in DAY mode

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1351 Anomaly Ack ✓ ✓

Detection devices are (partially) switched off or in test mode

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1999 Fault Ack ✓ ✓

Occurrence of a fault in a device (acknowledged)

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2000 Fault Unack ✓ ✓ ✓

Occurrence of a fault in a device (unacknowledged)

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**Gas zone - ( GSDEZOG )**

A `Gas zone` represents a supervised object, such as a room, office etc. Each zone contains one or more detectors, which are logically allocated to the zone.

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 ✓

Zone alarm active (unacknowledged)

502 Alarm Unreset ✓

Zone alarm active (unreset)

800 Prealarm Unack ✓

Zone pre-alarm active (unacknowledged)

802 Prealarm Unreset ✓

Zone pre-alarm active (unreset)

1000 Quiet

**Building services sector - ( BSDESEGE )**

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The `Building service section` is essentially limited to the signaling and monitoring of contacts.

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

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1999 Fault Ack

General Fault (acknowledged)

2000 Fault Unack

✓

General Fault (unacknowledged)

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Siemens Switzerland Ltd  
Building Technologies Group  
International Headquarters  
Fire Safety & Security Products  
Gubelstrasse 22  
CH-6301 Zug  
Tel +41 41 724 24 24  
Fax +41 41 724 35 22  
www.sbt.siemens.com

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