

SIEMENS

***MK8000 OPC Server Interface
Specification for NK822x***

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NK822x

The NK822x (NK8222 or NK8223) gateway is used to connect local and distributed safety and security devices to the CDI network. It provides a first level of centralisation, and acts as a secure communication partner for the NK8210, MM8000, and MK8000.

Application - (HWCMPMN)

The NK822x object represents the gateway used to connect local and distributed safety and security devices to the CDI network. It provides a first level of centralisation, and acts as a secure communication partner for the NK8210.

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

511 Alarm & Fault Ack

This event is the combination of the Alarm and Fault state. The event has been acknowledged.

811 Prealarm & Fault Ack

This event is the combination of the Prealarm and Fault state. The event has been acknowledged.

911 Tamper & Fault Ack

This event is the combination of the Tamper and Fault state. The event has been acknowledged.

1000 Quiet

✓

No abnormal conditions present.

1100 Test

✓

1351 Anomaly Ack

The event has been acknowledged.

1352 Anomaly Unack

✓

The event should now be acknowledged by the operator.

1369 Not Aligned

The control unit is not aligned to the field.

1370 Alignment In Progress

The alignment phase is in progress.

1999 Fault Ack

The communication link is down with NK822x. The event has been acknowledged.

2051 Vitality Fault

Missing vitality message (heartbeat): trouble in the communication link.

IC2 Bus - (HWCMEPGE)

This object represents a bus line for connecting IO modules or power supply.

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.

1351 Anomaly Ack

The IC2 is not configured. The event has been acknowledged.

1999 Fault Ack ✓ ✓

The I2C is in fault. The event has been acknowledged.

Digital input - (HWCMDIGE)

This object represents the digital input that can be connected to NK822x.

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 input is active.

1000 Quiet

No abnormal conditions present.

1351 Anomaly Ack

The input is not configured. The event has been acknowledged.

Digital output - (HWCMMOMGE)

This object represents the digital output that can be connected to NK822x.

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 digital output is active.

1000 Quiet



No abnormal conditions present.

1351 Anomaly Ack

The digital output is not configured. The event has been acknowledged.

Cercom Ion - (HWCMNWGE)

This object represents the connection node for the CS6 Guarto 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

1000 Quiet

No abnormal conditions present.

1351 Anomaly Ack

The Cercom is not configured. The event has been acknowledged.

1999 Fault Ack

The Cercom bus is in fault. The event has been acknowledged.

Line - COM1 - (HWCMLIGE)

The Line - COM1 object represents the status of connection on the COM1.

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.

1351 Anomaly Ack

The COM1 is not configured. The event has been acknowledged.

1999 Fault Ack

The communication on the COM1 is in fault. The event has been acknowledged.

Line - COM2, COM3, COM4 - (HWCMLIGE)

This object represents the status of the connection.

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.

1351 Anomaly Ack

The Line is not configured. The event has been acknowledged.

1999 Fault Ack

The line is in fault. The event has been acknowledged.

Power supply - (HWCMPSGE)

The Power Supply object represents what concerns the supervision of power supply.
The supervision of power is managed by NK822x by a device connected on I2C connector of NK822x called DF8090.

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.

1999 Fault Ack

A fault condition has been detected. One of these conditions are present:

- The Power supply is in fault
- The Mains failed
- The battery is low
- The Battery is in fault

The event has been acknowledged.

Clock - (HWCMLGE)

This object represents the status of clock inside the NK822x.

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.

1351 Anomaly Ack

The date&time was rejected. The event has been acknowledged.

Tamper control - (HWCMTCGE)

This object represents the status of the tamper protection of the NK822x.

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.

901 Tamper Ack ✓

A cabinet was opened. The event has been acknowledged.

911 Tamper & Fault Ack

This event is the combination of the Tamper and Fault state. The event has been acknowledged.

1000 Quiet ✓

No abnormal conditions present.

1300 Disarmed ✓

The tamper is disabled.

Ethernet x - (HWCMALGE)

This is the generic node which represents a virtual Ethernet connection with a management station in an MK8000 or MM8000 project.

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.

1351 Anomaly Ack

The management station is not configured. The event has been acknowledged.

1999 Fault Ack

The management station is not reachable. The event has been acknowledged.

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Document no. 007879_c

Edition