

**SIEMENS**

***MK8000 OPC Server Interface  
Specification for DMS7000***

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## DMS7000

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The Danger Management System family DMS7000 consists of the following members:

- MT7003 Terminal System;
- MC7003 processor and MA7003 system console (with LCD-monochrome display).

- MT7023 Terminal System;
- Central processor and system console (MA7033) in same housing (tower).

- MT7033 Terminal System;
- MC7033 processor and MA7033 system console (with colour monitor).

- MF7033 Digital PLC unit;

The MF7033 controls and monitors the connected control units at the evaluating level . It is used for indicating selected information from control units on indicating panels, actuation of selected functions in the control units, or as an interface with potential-free inputs and outputs to other building services installations. Also available are specifically designed PLC functions for safety and security systems, and logic and time elements.

### MM7033 MUX/DMX Satellite Control Unit

MM7033 is used at data acquisition level for monitoring of technical installations, controls for fire protection installations, as interface for the reception and processing of signals from non-Cerberus control units (inputs can be configured as sector fire, extinguishing, gas, intrusion or building services). It receives monitoring signals via digital inputs (contacts) and transmits the control signals via digital outputs (relay and/or LED driver), specifically PLC functions for safety and security systems are available in addition to logic and time elements.

## Dms application - ( BSNOAPMN )

The 'DMS Application' object represents the connection link status of the DMS7000 equipment.

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 ✓

Communication link to DMS7000 equipment in normal operation.

1351 Anomaly Ack ✓

The anomaly condition indicates a recoverable communication fault in one of the two connections to a loop network (Cerloop), i.e. the condition of data lines that connect the DMS7000 equipment with its two neighbouring nodes within the Cerloop ring topology.

1352 Anomaly Unack ✓ ✓

The anomaly condition indicates a recoverable communication fault in one of the two connections to a loop network (Cerloop), i.e. the condition of data lines that connect the DMS7000 equipment with its two neighbouring nodes within the Cerloop ring topology.

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

A faulty condition has been detected in the communication link to a DMS7000 equipment.

2051 Vitality Fault

Missing vitality message (heartbeat): trouble in the communication link with a DMS7000 equipment.

**Control unit - ( HWNOCCUD )**

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The `Control unit` object represents the status of the DMS7000 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

Power supply in normal operation.

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1999 Fault Ack

The power supply is operating in battery mode or a faulty condition has been detected in the power supply module.

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2000 Fault Unack ✓

The power supply is operating in battery mode or a faulty condition has been detected in the power supply module.

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**External device - ( HWNOPDET )**

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The `External device` object represents the state of the digital inputs of external devices 1 and 2 provided by the DMS7000 power supply unit (MN7001: inputs on K1C010 PIA adapter; MN7002: inputs on K3C070 PIA adapter). These inputs can be used for the supervision of external or 3rd party equipment.

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

The input `external device` is inactive..

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1999 Fault Ack

The input `external device` is still active and the fault message has been acknowledged by the operator.

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2000 Fault Unack ✓

The input `external device` has been activated, which leads to an unacknowledged fault message.

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**External clock - ( HWNOCLET )**

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The `External clock` object represents the supervision of an external master clock, which can be connected to the E2H081 MPU board. Error recognition of missing external master clock signal within 2 min.

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 condition present.

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1999 Fault Ack

The DMS7000 equipment is no more synchronised by the external master clock.

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2000 Fault Unack ✓

The DMS7000 equipment has lost the signal of the external master clock for more than 2 minutes.

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**Service port - ( HWCMLIGE )**

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The 'Service Port' object becomes active when a user logs on to the service interface (on E2H081-A1/A2) of a DMS7000 equipment.

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 ✓

A user has logged in on the DMS7000 service port.

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947 Active Ack

User login on the DMS7000 service port has been noticed by the operator.

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1000 Quiet

DMS7000 service port not in use.

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**Digital input - ( BSCODIGE )**

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The `Digital input` object represents the state of the digital input of an E2A041 MUX 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

946 Active Unack ✓

An active state on a digital input has been detected.

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947 Active Ack

Digital input is active.

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1000 Quiet

Digital input is inactive.

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**Digital output - ( BSCODOGE )**

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The 'Digital output' object controls a digital output of an E2A032 DEMUX- or K1G011 relay 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

950 Active



Digital output is active.

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1000 Quiet



Digital output is inactive.

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Monitored input - ( BSCODISV )

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 event should now be acknowledged by the operator.

502 Alarm Unreset ✓

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

511 Alarm & Fault Ack

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

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.

1100 Test ✓

1111 Test-Alarm Ack

The event has been acknowledged.

1400 Disconnected ✓

1999 Fault Ack

The event has been acknowledged.

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