

# Desigo<sup>®</sup> Fire Safety Modular System

## Digital Message Card Model XDMC

### Architect & Engineer Specifications

- Custom digital message player for Desigo Fire Safety Modular system
- Up to 300\* unique custom messages per Model XDMC card
  - Plays two (2) messages simultaneously
  - Up to 100 minutes of phrase storage
- No external inputs required to activate messages
- Custom software-programmable messages for events:
  - `Evacuation`
  - `Emergency Notification`
  - `Tornado Warning`
  - `System Testing`
  - `Alert`
- Several combinations of messages and tones available:
  - Slow `Whoop`
  - 900 Hz
  - Chime
  - Temporal Code 3
  - `Wail`
  - Horn
- `Live Voice` custom-message recording
- Specific-message programming of each device
- Spoken `Walk Test` / zone coding
- Selectable message priorities (1-10)
- Selectable-message repeat counts (1 – 15 or continuous)
- Mounts in either Model CC-2 or Model CC-5 card cage
- UL864 & CAN / ULC-S576 Listed

### Product Overview

Model XDMC from Siemens Fire Safety provides the end-user the ability to program and sound custom spoken voice messages for `Evacuation` | `Alert` | `Tornado Warning` | `System Testing` and other emergency and non-emergency building-notification requirements.

Model XDMC is an optional module designed to meet the requirements of voice evacuation systems that require the ability to sound pre-recorded spoken messages. Model XDMC plugs into an available expansion slot in the Model CC-2 / CC-5 card cage. Each Desigo Fire Safety Modular system can support a maximum two (2) Model XDMC modules.

Communication and supervision of Model XDMC is performed by Model DAC-NET. If a failure should occur in Model XDMC, the on-board tone[s] will automatically provide back-up to Model XDMC.

Each module can be programmed for up to 300\* different custom messages. Model XDMC can play two (2) messages simultaneously. The messages are programmed using the Desigo Fire Safety Modular system's custom-configuration tool, *Zeus-D*.

The custom messages can be established from a pre-recorded library of more than 130 digitally recorded words, phrases and tones. Users can add their own custom phrases, too. A maximum 16 words, tones and phrases can be used in any combination, creating up to 300\* unique messages that can be assigned to sound:

- by device
- by floor / zone
- by building, or
- by any group desired

The phrase library contains six (6) different tones that can be selected to meet requirements that call for combinations of spoken messages and tones.

The available tones are:

- Slow `Whoop`
- Temporal Code 3
- 900 Hz
- Chime
- Wail
- Horn

**\* Although one (1) Model XDMC can support 300 messages, the maximum each panel can handle is 300.**

Moreover, the maximum messages allowed remains at 300, even though it is possible to have two (2) Model XDMC cards on a single Desigo Fire Safety Modular panel.



**Model XDMC**  
Digital Message Card



## Product Overview – (continued)

Model XDMC also supports recording user-specified messages in – .MP3, – .WAV file formats that comprise of phrases not contained in the on-board phrase library. The total of phrase time supported on Model XDMC – for both the pre-recorded phrase library and the custom recorded phrases – is 100 minutes.

For example, if a general evacuation message needs to sound in two (2) different languages:

***“May I have your attention please... a fire emergency has been reported in the building, while this is being investigated, please leave the building by the nearest exit. Do not use the elevators.”***

...the message could be selected directly from the pre-recorded phrase library of Model XDMC, using the custom-programming tool, *ZEUS-D*. Additionally, the same message can be used for playback in a non-English language, via a – .MP3 or – .WAV file format.

When an Alarm event occurs, the message can be played back in English and in the recorded non-English language – alternating and repeating as many times as required, or playing continuously until the system is silenced and reset.

This additional recording time can also be broken down into custom phrases that may be used in multiple messages.

Model XDMC programming allows up to 10 different message-priority levels to be assigned, as well as the number of rounds to repeat a particular message (1-15 or continuous). High-priority messages will override low-priority messages. Messages of the same priority activated simultaneously will alternate between the messages.

A Model SCM-8 switch can optionally be programmed to manually override the operation of Model XDMC.

## Controls and Indicators

The front side of Model XDMC contains the following:

- One (1) RESET switch
- Nine (9) diagnostic LEDs to indicate operation
- One (1) Ethernet port (RJ45 jack)
- Two (2) 10-digit CAN address switches

The reset switch is located at the top of the front side of each Model XDMC card. Pushing the reset switch re-initializes operation of Model XDMC.

Two (2) 10-position switches at the front-bottom part of each Model XDMC card are used to set the CAN network address of Model XDMC.

POWER	GREEN	Normally ON. When illuminated, indicates the power for Model XDMC is applied to the card.
CARD FAIL	YELLOW	Normally OFF. When illuminated, indicates hardware failure on the card or unsuccessful firmware upload.
CAN FAIL	YELLOW	Normally OFF. When illuminated, indicates the CAN communication has terminated and the card enters degrade mode failure on Models XDMC; DAC-NET; the backplane of Model CC-5, or other CAN Cards.
ASI FAIL	YELLOW	Normally OFF. When illuminated, indicates ASI communication has stopped and the card enters degrade-mode failure on Models XDMC, DAC-NET, the backplane of Model CC-5, or other ASI Cards.
TROUBLE	YELLOW	Normally OFF. When illuminated, indicates a Model XDMC software database error at that can be corrected by a technician.
CHANNEL 1 ACTIVATED	GREEN	Normally OFF. When illuminated, indicates Channel 1 is active in playing a message.
CHANNEL 1 TROUBLE	YELLOW	Normally OFF. When illuminated, indicates a <i>Trouble</i> event with Channel 1.
CHANNEL 2 ACTIVATED	GREEN	Normally OFF. When illuminated, indicates Channel 2 is active in playing a message.
CHANNEL 2 TROUBLE	YELLOW	Normally OFF. When illuminated, indicates a <i>Trouble</i> event with Channel 2.

### Technical Data

<b>OPERATING TEMPERATURE RANGE:</b>	32°F to 120°F [0°C to 49°C]
<b>MOUNTING:</b>	Model XDMC mounts in one (1) of four (4) available slots in the Model CC-2 or Model CC-5 card cage
<b>SUPERVISION:</b>	Internally supervised by the Desigo Modular via communication with the Desigo Modular main audio processor, Model DAC-NET
<b>24V CURRENT DRAW:</b> [Max.]	50mA @5VDC
<b>24V CURRENT DRAW:</b> [Back Plane]	140mA
<b>24V CURRENT DRAW:</b> [Screw Terminal]	0mA
<b>6.2V CURRENT DRAW:</b> [Back Plane]	120mA + 20mA, per active channel
<b>MESSAGE ACTIVATION METHOD:</b>	Accomplished via internal Desigo Fire Safety Modular system logic or Model SCM-8 switches (no external inputs required)
<b>NUMBER OF MESSAGES:</b> [for each Model XDMC Message Card]	300* messages, max.
<b>CUSTOM MESSAGE RECORDING TIME:</b>	100 minutes
<b>WIRING:</b>	The only wiring required is internal in the Desigo Fire Safety Modular system enclosure from the Model CC-2 / CC-5 card cage in which Model XDMC is mounted (no external wiring required).

### Details for Ordering

MODEL OR TYPE	PART NUMBER	PRODUCT
XDMC	S54430-B5-A1	Digital Message Card for use on Desigo Fire Safety Modular panels

### Installation and Operation Manual (IOM)

MODEL OR TYPE	PART NUMBER	PRODUCT
XDMC	A6V10346036	Digital Message Card for use on Desigo Fire Safety Modular panels

### Temperature and Humidity Range

Model XDMC is UL 864 10th Edition Listed for indoor locations within a temperature range of 120° +/- 3°F (49 +/- 2°C) to 32 +/- 3°F (0 +/- 2°C) and a relative humidity of 93 +/- 2% at a temperature of 90 +/- 3°F (32 +/- 2°C).

\* Although one (1) Model XDMC can support 300 messages, the maximum each panel can handle is 300.

Moreover, the maximum messages allowed remains at 300, even though it is possible to have two (2) Model XDMC cards on a single Desigo Fire Safety Modular panel.

**NOTICE** – The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice. The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information.

Copies of install-type, instruction sheets – as well as the *General Product Warning and Limitations* document, which also contains important data, are provided with the product, and are available from the Manufacturer.

Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

For any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.

**SIEMENS**

**Desigo® Fire Safety**

**Siemens Industry, Inc.**  
Smart Infrastructure - Building Products  
2 Gatehall Drive • Parsippany, NJ 07054  
Tel: (973) 593-2600  
March - 2023  
(Rev. 1)