

# DS3MX Series Three-zone Mini Control Panels

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- ▶ Three zones and a separate key-switch input
- ▶ Three user codes and an unlock door code
- ▶ Quick Arm function
- ▶ Built-in piezo buzzer
- ▶ Built-in tamper switch

The DS3MX is a three-zone mini panel which can be installed as a stand-alone device or connected to the DS7400Xi Control/Communicator's Multiplex Bus for integrating individual apartment housing units into a large building monitoring system. The DS3MX is capable of sending Arm, Disarm, Alarm, Tamper, and Trouble information to the DS7400Xi. Additionally this information can be reported from the DS7400Xi to the CMS7000 multi-panel monitoring software. (Refer to CMS7000 documents for more information.)



#### Notice

Use with DS7400Xi requires DS7400Xi-CHI with ROM version 4.05 or later.

The mini panel has three alarm input zones, one alarm relay output, two solid-state outputs, key switch input, instant input and supports three user PIN codes including the master code and one door unlock PIN code.

## Functions

### Three Zones and a Separate Key-switch Input

All three zones can be programmed to be Instant, Delay, 24-hr or Follower. In addition, Zone three can be programmed to a Request-to-exit (REX) function for unlocking a door with its input connected to a momentary push button or to a REX sensor such as the DS150i. This input then activates an output to either the relay output or Solid-state Output #2 to unlock the door for a preset time.

The key-switch input can be programmed to respond to either a momentarily or continuously closed key switch. When used in combination with the hardwired Instant Input mode, this allows instant arming/disarming of the system by simply turning a key.

### Three User Codes and an Unlock Door Code

One master code is preprogrammed for programming or arming/disarming the system. Two user codes can be programmed for arming/disarming the system. An unlock code is provided to allow the user to unlock a door.

**Quick Arm Function**

Programmed at time of installation, this feature allows single button arming without the need for a user code by holding the ON button down for 3 seconds.

**Built-in Piezo Buzzer**

The piezo buzzer (with a frequency of 2400 Hz) provides a key entry sound (beep sound), exit/entry sound (continuing beep sound), alarm sound (tone) and panic sound (beep will repeat every 2.5 seconds).

**Built-in Tamper Switch**

The built-in tamper will notify the control panel if the enclosure cover is removed or if the unit is removed from the mounting wall.

**Installation/configuration notes****Use on DS7400Xi Multiplex Bus**

When connected to a DS7430 MUX Module on the DS7400Xi panel's multiplex bus the maximum number of DS3MX panels is 120.

When connected to a DS7436 MUX Module on the DS7400Xi panel's multiplex bus the maximum number of DS3MX panels is 240 (120 per bus).

**Power Requirements**

DS3MX devices can be powered directly from the DS7400Xi Aux Power Terminals. However if more than twelve DS3MX are used, separate power supply(s) will be needed. Each power supply should have its 12 VDC output floating from ground to avoid a MUX bus fault and each should have its own internal battery back up. If more than one power supply is used, the negative (-) terminals of the power supplies must be connected together.

**Notice**

Auxiliary 12 VDC power supply(s) must not be connected to the DS7430 or DS7436 MUX Modules because damage to the equipment may occur.

The current draw on the power supply(s) depends on the number of DS3MX panels used and the number and types of outputs used. To calculate the current required for the 12 VDC power supply(s), use the following formula:

$(\text{Number of DS3MX Panels} \times 100 \text{ mA}) + (\text{Number of PO1 outputs used} \times 250 \text{ mA}) + (\text{Number of PO2 outputs used} \times 250 \text{ mA}) = \text{Total mA}$ .

**Example:** You have six DS3MX Panels. Three will use both the PO1 and PO2 outputs. Three will use the PO1 output only.

$(6 \times 100 \text{ mA}) + (6 \times 250 \text{ mA}) + (3 \times 250 \text{ mA}) = 2850 \text{ mA} = 2.85 \text{ A}$ .

In this example you should use a 3 A power supply.

**Technical specifications****Enclosure**

Color:	Frost white
Indicators:	3 zone LEDs, 2 status LEDs
Dimensions:	12.5 cm x 9.1 cm x 3.2 cm (4.9 in. x 3.6 in. x 1.3 in.)

**Environmental Considerations**

Relative Humidity:	0% to 85% non-condensing
Temperature (Operating):	-20°C to +50°C (-4°F to +122°F)

**Outputs**

Alarm Relay:	Form C contacts rated at 3 A at 28 VDC or 120 VAC
Solid-State:	2 DC current sinks; 250 mA maximum per output at 0.1 VDC saturation.

**Power Requirements**

Current Draw:	30 mA standby, 70 mA alarm, 100 mA max.
Voltage (Input):	10.2 VDC to 15 VDC

**Zone Characteristics**

EOL Resistors:	10 kΩ
Response Time:	500 ms

**Trademarks**

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**Ordering information****DS3MX Control Panel**

Provides three zones and a separate key-switch input. The keypad text is in English.  
Order number **DS3MX**

**DS3MX-CHI Control Panel**

Provides three zones and a separate key-switch input. The keypad text is in Chinese.  
Order number **DS3MX-CHI**

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