



# INSTRUCTION MANUAL

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## CM1400

Chime / Siren Tone Generator



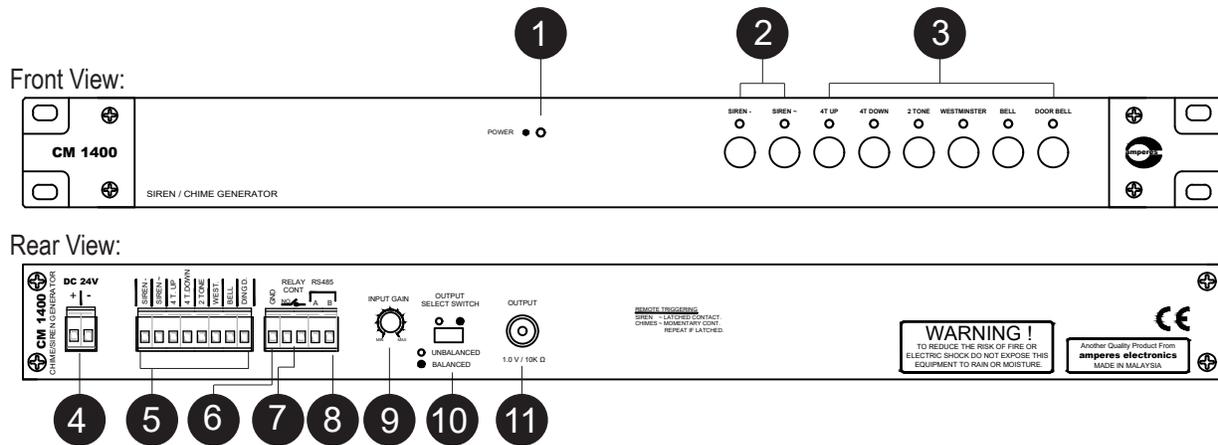
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*Thank you for choosing another quality product from Amperes Electronics.*

CM1400 offers 6 chimes and 2 siren tones with selectable balanced and unbalanced line output. Activation of chime shall be from front switches or via remote triggering terminal, enabling the unit to be linked to external sensors or triggering system such as alarm panel, remote mic or emergency switch. Siren has priority over chimes.

It is suitable for installation in schools, factories, hazardous areas etc.

# Parts Identifications



## 1. POWER LED

It is to indicate the presence of 24V DC supply to the unit.

## 2. SIREN SWITCHES

The switches activate siren in constant or wavy mode. Press once to active and again to switch Off. Siren broadcast shall has priority over chime or tone activation.

## 3. TONE / CHIME GENERATION

The activation is via momentary switches. While any of the tone is in active mode, pressing the siren shall bypass it. Tones available are 4 tone up / down, 2 tone, westminster, bell rings and ding dong.

## 4. POWER SUPPLY

The unit operates using 24V DC supply with rating of 0.3A.

### Warning :

Do not connect the unit directly to back up batteries, as higher voltage in charging mode shall damage the unit. We recommend Amperes PS9400 power supply unit or any other regulated 24V DC adaptor.

## 5. REMOTE ACTIVATION PORT

Triggering of the siren / tone / chime can be done remotely. Auto dual mode triggering is available for all ports; momentarily or latched.

## 6. GND

Ground and external trigger will form a pair of circuit for remote activation.

## 7. RELAY CONTACT

Triggering the front panel mic switch message or siren shall activate an internal relay. This ports provide a dry contact which can be used to connect E/M overriding signal or to activate ALL CALL at speaker zone selector.

## 8. RS485

External controls or interface devices shall be able to communicate with the unit.

## 9. GAIN CONTROL

The output is line level, 0dB. Adjust the volume via this knob.

## 10. OUTPUT MODE

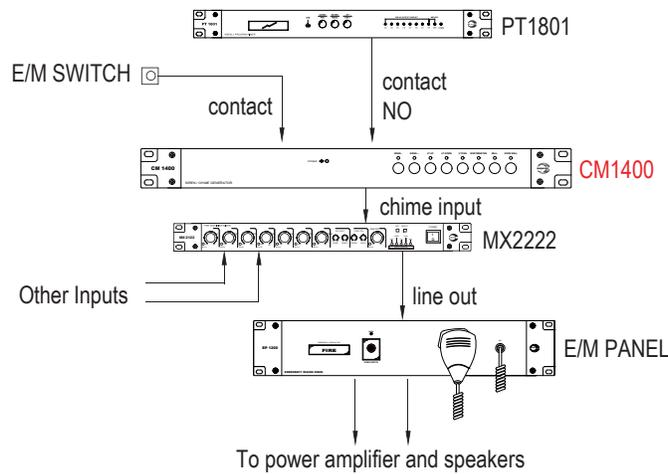
The user shall have option to have balanced or unbalanced output by using this switch.

## 11. OUTPUT JACK

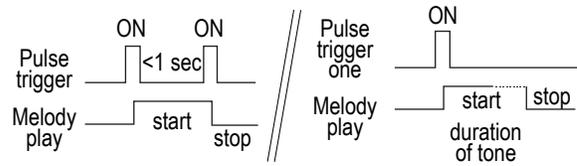
Output is via 1/4" stereo jack.



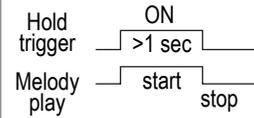
# Application Schematic



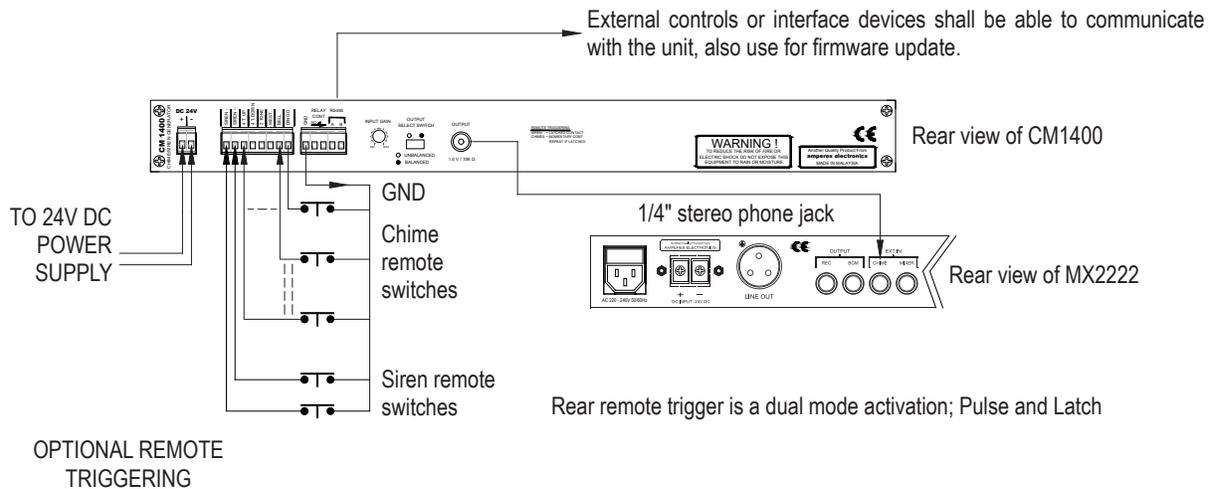
## Pulse Trigger Mode ( Front and Rear )



## Latch Contact Trigger Mode ( Rear only )



# Connecting The Unit



# Technical Specifications

Operating voltage	24V DC ; 0.3 A
Power consumption	7.2W
Chime type	4 tone up, 4 tone down, 2 tone Ringing bell, Westminster, Ding Dong
Siren type	Constant siren 8 KHz Wavy siren
Frequency response	70 - 15KHz
External activation	3A Dry contact
Output	Line 1.2V balanced
Output impedance	600 Ohm
Gain	+4 dB max
Communication control	RS485
Dimensions (WxHxD)	482 x 44 x 180 mm
Weight	1.55 kg

## Warranty Conditions

Only Amperes Electronics Service Centres are allowed to make warranty repairs : a list of Amperes Electronics Service Centres may be asked for by the purchaser or send directly to Amperes Electronics Sdn Bhd at 70 Jalan Industri PBP 3, Tmn Perindustrian Pusat Bandar Puchong, 47100, Puchong, Selangor, Malaysia or its authorized dealers. This warranty is not valid if repairs are performed by unauthorized personnel or service centres.

This warranty covers only repairs and replacement of defective parts ; cost and risks of transportation as well as removal and installation of the product from the main system are for the account of the purchaser. This warranty shall not extend to the replacement of the unit.

This warranty does not cover damages caused by misuse, neglect, accident of the product as well as using the product with power supply voltage other than shown on the product, or any other power supply source / adaptor not recommended by the manufacturer.

This warranty does not cover damages caused by fire, earthquakes, floods, lightning and every cause not directly related to the unit.

This warranty does not include any indemnity in favor of the purchaser or the dealer for the period out of use of the unit; moreover the warranty does not cover any damages which may be caused to people and things when using the product.

This warranty certificate is valid only for the described product, and is not valid if modifications are made on this certificate or on the identification label applied on the product.

This warranty covers all the material and manufacturing defects and is valid for a period of 36 months from the date of purchase or for a specified period in countries where this is stated by a national law. In this case, the extension is valid only in the country where the product is purchased.

Amperes Electronics Sdn Bhd is not obliged to modify previously manufactured products under warranty if the design changes or improvements are made.

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Information contained in this manual is subject to change without prior notice and does not represent a commitment on the part of the vendor. AMPERES ELECTRONICS SDN BHD shall not be liable for any loss or damages whatsoever arising from the use of information or any error contained in this manual.

It is recommended that all services and repairs on this product be carried out by AMPERES ELECTRONICS SDN BHD or its authorized service agents.

AMPERES series must only be used for the purpose they were intended by the manufacturer and in conjunction with this operating manual.

AMPERES ELECTRONICS SDN BHD cannot accept any liability whatsoever for any loss or damages caused by service, maintenance or repair by unauthorized personnel, or by use other than that intended by the manufacturer.



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