

CN-15MP Quick Start Guide

Guía de inicio rápido Guide de démarrage rapide



CN-15MP
15 A Maximum



CN-15MP Shown with Phoenix type connectors removed and security cover attached.

For Full Instructions go to:
Para obtener instrucciones completas, visite:
Pour des instructions complètes allez à:
www.furmancontractor.com

For more information call:
Para más información llame al:
Pour plus de renseignements:
877-486-4738

FURMAN

INTRODUCTION

Congratulations and thank you for choosing a Furman Contractor Series Sequencer / AC Duplex Mini Port. Key to Furman's CN Series is SmartSequenc-

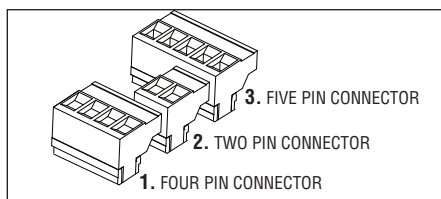
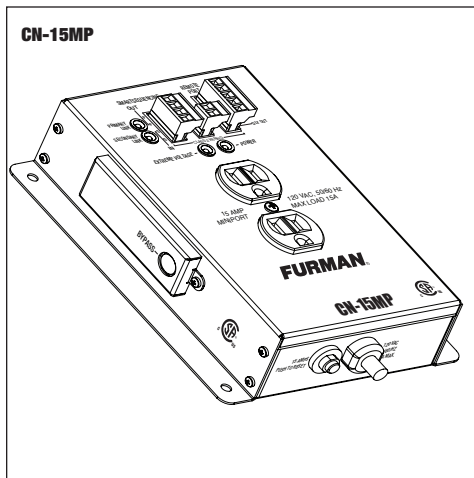
ing technology. This offers an unprecedented level of AC control-switching options, streamlining installations from conception to finish. We can assure

you that this Furman Contractor Series Sequencer / AC Duplex Mini Port will perform as intended and provide many years of operation.

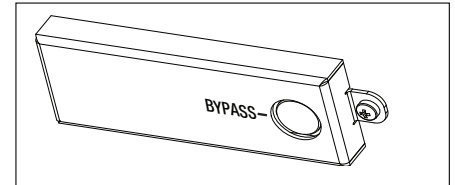
BEFORE YOU BEGIN, INSPECT UPON RECEIPT

Please read IMPORTANT SAFETY INSTRUCTIONS

- No serviceable parts. Please see manual online for details.
- Full instructions at: www.furmancontractor.com/manuals
- Please inspect the Furman Contractor Series unit thoroughly.
- Please contact Furman Customer Service at 707.763.1010, if there is any noticeable damage to product or product does not operate out of box.
- Contents of this package include:



3 Phoenix Type Connectors



Removable Cover Shield

NOTE:

The box contains no other instructions except this quick start guide.

Please visit www.furmancontractor.com or www.furmancontractor.com/manuals

IMPORTANT SAFETY INSTRUCTIONS

1. Please read and follow all instructions.
2. Keep these instructions.
3. Heed all warnings.
4. **WARNING: This device is intended for indoor use only.** Do not use this device near water. To reduce the risk of fire or electric shock, do not expose this device to rain or moisture.
5. **CAUTION: Functioning Always On** receptacles (depending on switching-sequence mode utilized). To reduce risk of shock, please disconnect the CN-15MP AC Duplex Miniport from AC power before servicing any equipment connected to the CN-15MP.
6. Clean only with dry cloth.
7. **CAUTION:** Do not install near any heat sources such as radiators, heat registers, stoves, or other equipment that may produce heat.
8. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit the device.
9. Please, only use accessories specified by the manufacturer.
10. Refer all servicing to qualified personnel. Servicing is required when the unit has been damaged in anyway or fails to operate.
11. **WARNING:** Do not use power cord as the main power disconnect. The device is intended for AC power sequencing.
13. Do not defeat the safety purpose of the polarized plug. A polarized plug has two blades, with one wider than the other. The wide blade is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. (*See next page for 20A plug)
14. Do not defeat the safety purpose of the grounding prong. A ground type plug has two blades and a third grounding prong. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
15. **WARNING:** This device must be connected to an AC outlet with a protective earth ground connection.

FEATURES

SmartSequencing™ is a command response non-polarized bidirectional current loop. It is a technology that allows large complex A/V systems to be safely power cycled on and off with a simple key turn or press of a button (when utilized with the Furman RS-1, RS-2 remote switches or any Furman Sequencer-Controller-Conditioner). Detailed information on SmartSequencing™ can be found at www.furmancontractor.com.

Delay Adjust allows from 0.1 seconds up to 7 minutes (when used in SmartSequence mode) EVS (switchable) Extreme Voltage Shutdown to protect against sustained over voltage from wiring faults

Forced Off immediate shutdown for safety and fire ordinance compliance.

Legacy Compatible will function via dry contact maintain or momentary mode closure with any Legacy Furman MiniPort or Sequencer-Controller.

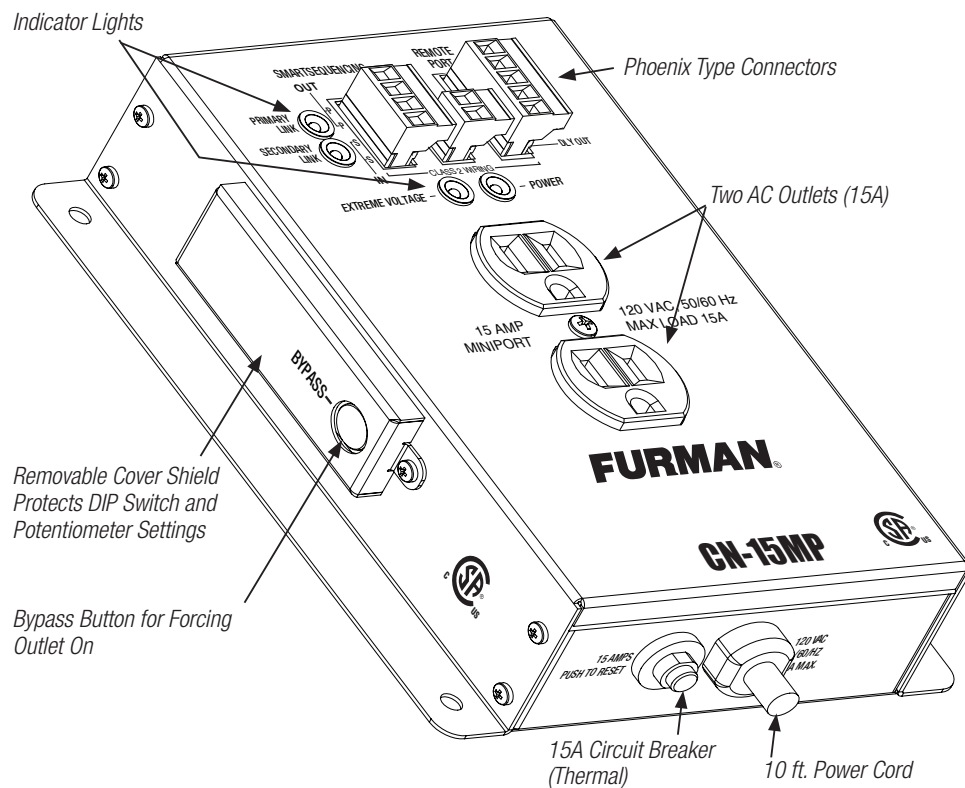
2 AC Outlets

10 ft. Power Cord

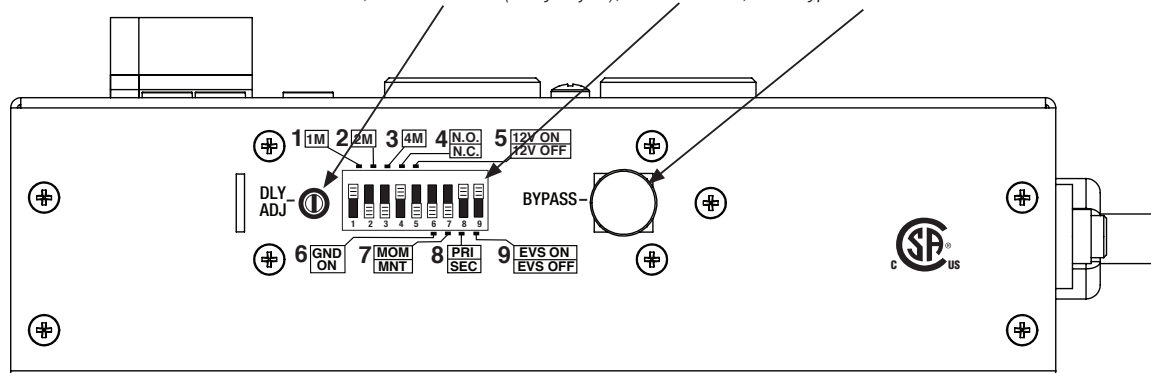
15 Year Limited Product Warranty

See actual warranty documentation online at www.furmancontractor.com

CN-15MP

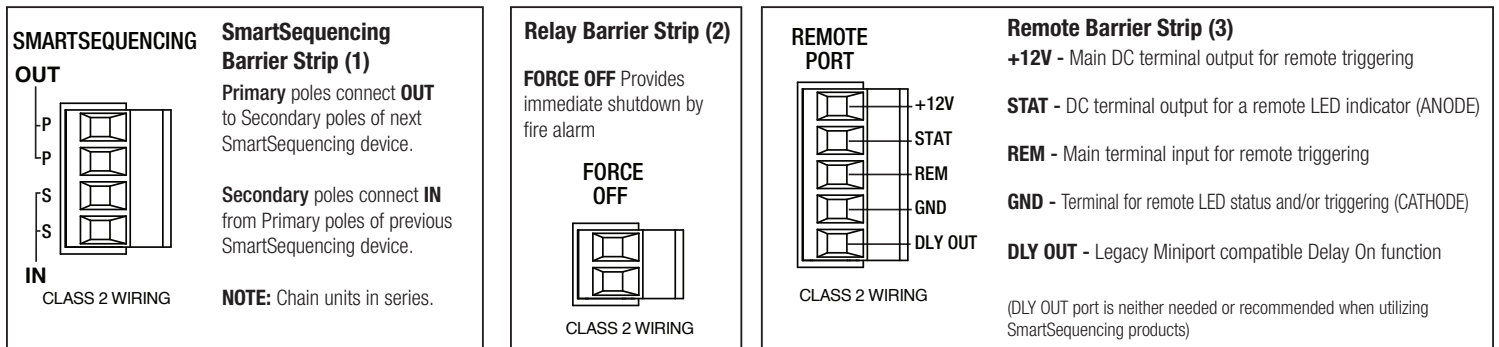


CN-15MP left side view. Cover removed, Potentiometer (delay adjust), DIP Switches, and Bypass Switch for Force On.



FRONT AND BOTTOM PANEL FEATURES DESCRIPTIONS

PHOENIX TYPE CONNECTORS



CONNECTION STATUS LIGHTS

PRIMARY LINK – Multi-color LED indicates the condition of communication between the **Secondary Link** and the **Primary Link** of the *preceding* unit.

GREEN Unit is communicating through **Secondary Link** to preceding unit's **Primary Link OUT**.

RED Unit has lost communications through **Secondary Link** to preceding unit's **Primary Link OUT**.

Please Note: A slow blinking GREEN PRIMARY LINK LED indicates the unit is configured as the MAIN Primary unit per DIP Switch 8. (Factory Default)

SECONDARY LINK – Multi-color LED indicates the condition of communication between the **Secondary Link** and the **Primary Link** of the *following* unit.

GREEN Unit is communicating through **Primary Link** to following unit's **Secondary Link IN**.

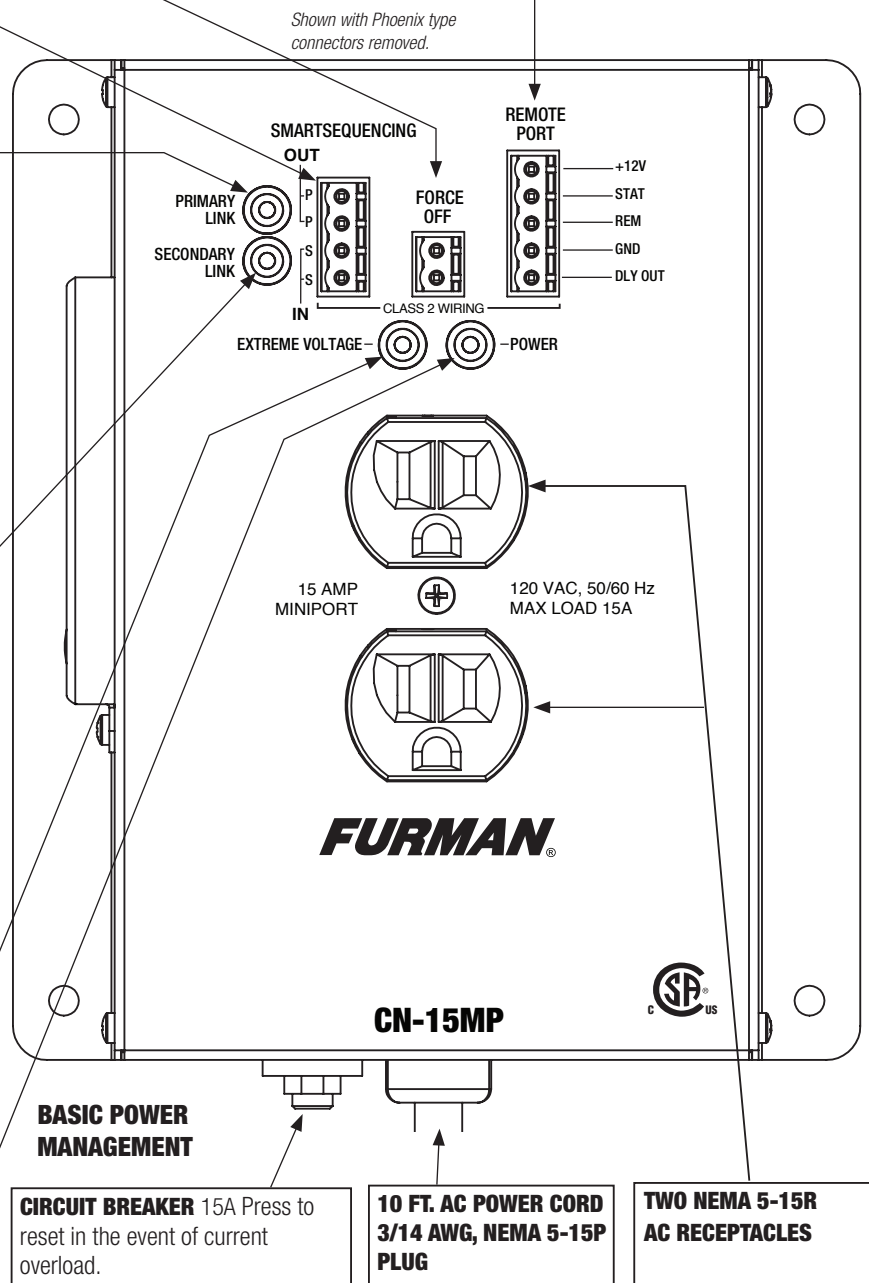
OFF Unit has lost communications through the **Primary Link** to following unit's **Secondary Link IN**.

Please Note: An unlit SECONDARY LINK LED indicates last unit in sequencing chain. A single unit will have an unlit SECONDARY LINK LED.

POWER PROTECTION INDICATORS

EXTREME VOLTAGE Illuminated RED when an extreme voltage condition is present (consequently, all outlets are powered off). EVS is activated or disabled by the (DIP 9) setting. EVS when utilized will automatically reset when the incoming AC voltage returns to a safe range of operation (90VAC - 130VAC).

POWER Illuminated GREEN indicates when the AC duplex is powered.



LEFT SIDE PANEL FEATURES (SECURITY COVER PLATE REMOVED)

DIP SWITCH MATRIX AND TIME CALIBRATION (diagrams below)

DIP 1 1M = 1 Minute Delay

DIP 2 2M = 2 Minute Delay

DIP 3 4M = 4 Minute Delay

NOTE: DIP 1, 2 & 3 can be summed together up to 7 minutes.

DIP 4 N.O. / N.C. sets Forced Off alarm poles

The out of the box factory setting is “normally open”.
When sequence is “ON”. Switched outlets will be ON until a dry contact closure is applied across the FORCE OFF poles.

DIP 5 12VDC ON/OFF sets +12V pole in Remote Mode (DIP 7 set to MNT)

Chooses +12V to REM pole functionality. In default OFF mode, a dry closed contact across +12V to REM triggers sequencer OFF. If ON mode, closed contact triggers ON.

- 12V OFF = Short Deactivates
- 12V ON = Short Activates

DIP 6 GROUND ON / OFF

Activates REM to GND pole functionality.

- REMOTE TO GROUND = ON

DIP 7 Maintained / Momentary

Sets contact closure preference for either Maintained or Momentary switches.

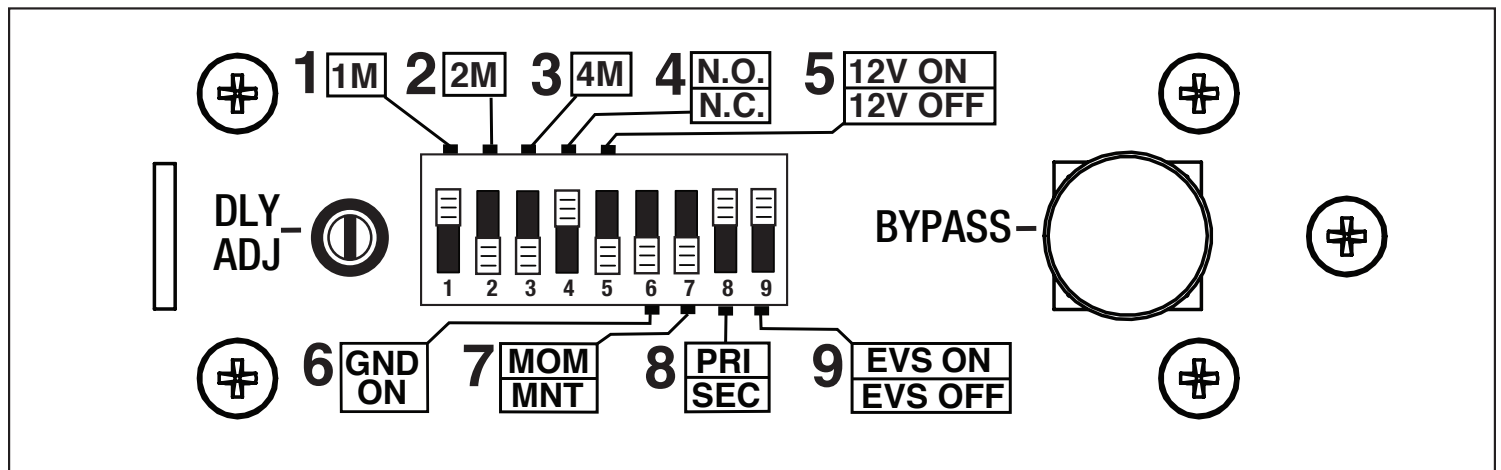
NOTE: Momentary mode overrides DIP 5 and 6.

DIP 8 PRIMARY / SECONDARY

Delegates unit's role in command sequence.

DIP 9 EVS AUTO / NO EVS setting

Activates/Deactivates Extreme Voltage Shutdown.



FACTORY DEFAULT SETTINGS - SET FOR 30 SECOND DELAY

Time Delay Adjustment ranges from 0.0% to 100%. The percentage is multiplied with the DIP switch selections 1, 2 and 3.

POTENTIOMETER DEFAULT SETTING

- Time Delay Adjustment is set at 12:00 o'clock (50%)



DIP SWITCH DEFAULT SETTING - Switches are factory pre-set as shown below. Switches 1, 4, 8, and 9 are up (ON) position.



NOTE: The DIP switch ON / OFF settings are indicated as shown below throughout this manual.



BYPASS BUTTON

For FORCE ON.

EXAMPLE 1 DIAGRAM - SMALL SmartSequencing SET-UP (Typical)

RS-2 Momentary Remote Switch

CN-1800S

CLASS 2 WIRING
24 AWG RECOMMENDED

Fire ordinances sometime require immediate shut down, no matter how large or small a sound system. SmartSequencing provides the solution.

FIRE ALARM (2 POLE)

IMMEDIATE FORCED OFF WITH SHORT

CN-15MP

DIP SWITCH SET



POWERED ARRAYS

CN-15MP

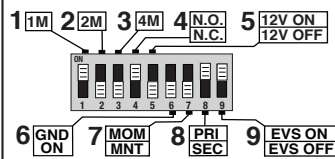
DIP SWITCH SET



MONITOR SYSTEM

V = VOLTAGE
S = STATUS
R = REMOTE
G = GROUND
D = DELAY

DELAY
ADJUST



FOR REFERENCE
ONLY
ABBREVIATED
DESCRIPTIONS
AS SHOWN ON
THE PRODUCT.
NOT FOR
SETTING(S)
INSTRUCTIONS.

EXAMPLE 2 DIAGRAM - SMARTSEQUENCING SET-UP - SAMLL LEGACY UPGRADE

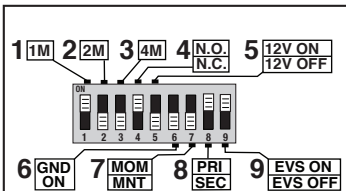
RS-1 Maintained Key Switch

CN-15MP PRIMARY

CN-1800 replaces Legacy product for purposes of immediate shutdown.

CLASS 2 WIRING
24 AWG RECOMMENDED

When using Legacy Port,
Dip Switch #8 must be in
the up position.



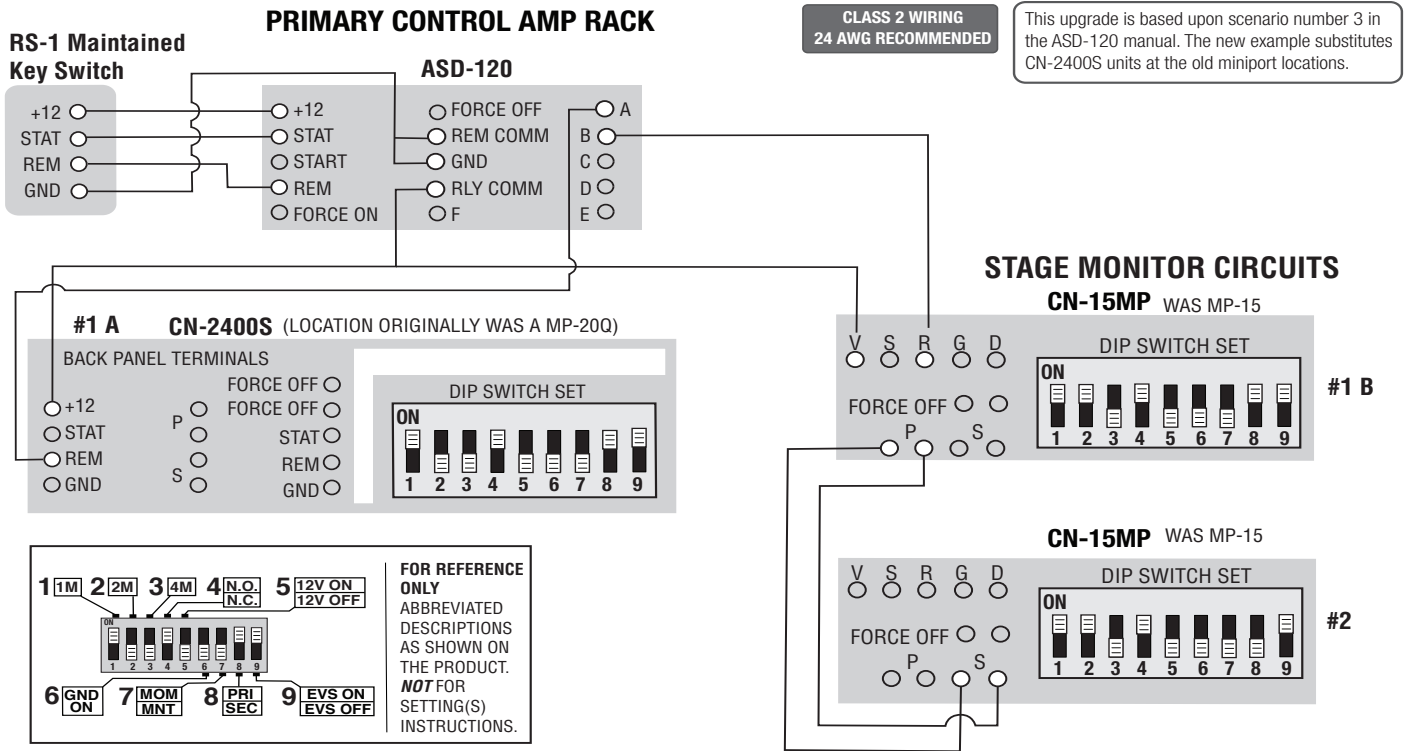
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CN-15 MP

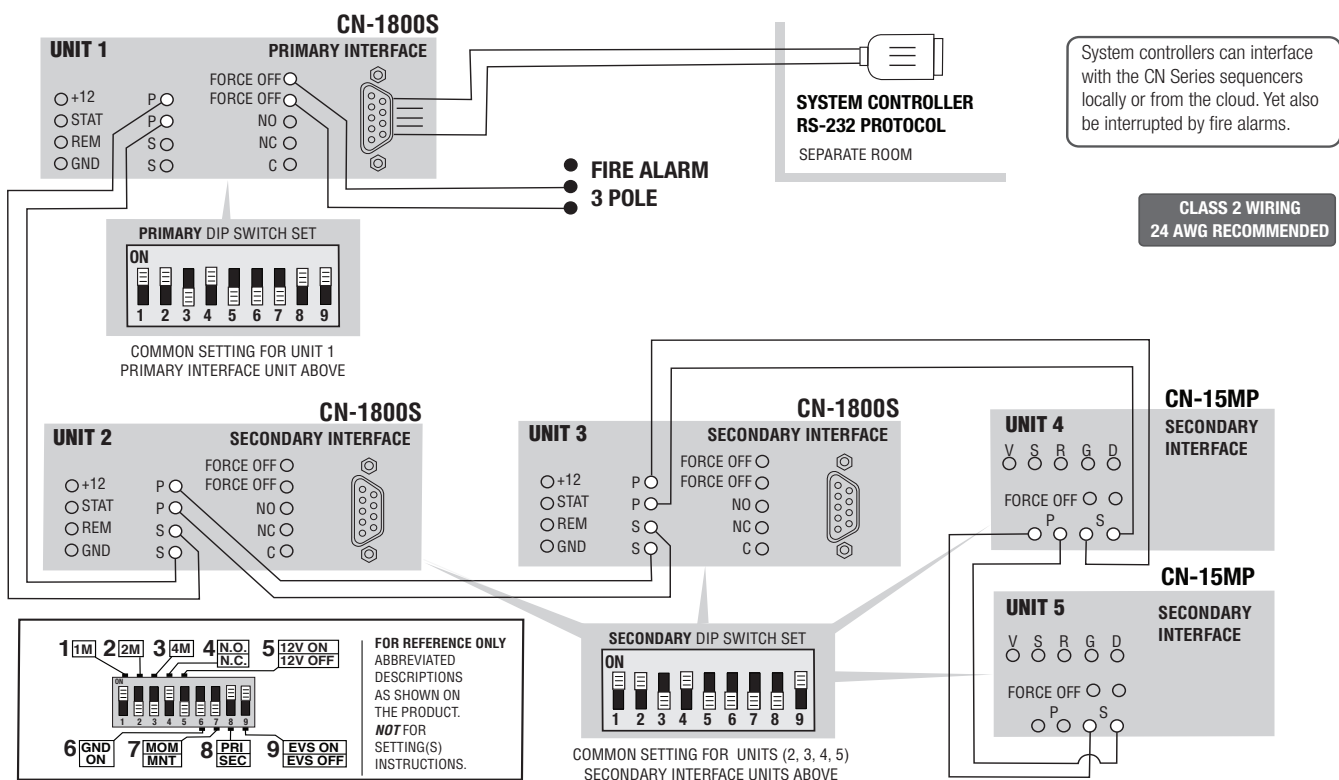
MP-20 (Old)

MP-20 (Old)

EXAMPLE 3 DIAGRAM - LARGE LEGACY UPGRADE



EXAMPLE 4 DIAGRAM - LARGE SET-UP PRIMARY CONTROLLED VIA RS-232



SPECIFICATIONS

Maximum AC Current Rating:

- 15 Amps, 120 VAC (Thermal breaker)

AC Cord:

- 3/14 AWG, 10 feet, black, fixed, NEMA 5-15P plug

AC Receptacles:

- AC Outlets: 2 Switched NEMA 5-15R (1 duplex)

Surge/Under-Overvoltage Protection:

- AC Undervoltage Protection: EVS, 77VAC+/-3VAC
- AC Overvoltage Protection: EVS, 145VAC+/-5VAC
- AC Under-Overvoltage Activate/Deactivate Modes: ON or OFF DIP 9 (configurable)

Operating Temperature Range:

- 5C (40F) to 40C (105F) degrees

Humidity Range:

- <90% rH (Relative Humidity)

User Interface:

- Thermal Circuit Breaker: Bottom panel, pushbutton
- Front panel diagnostic indicators: Primary link, Secondary link, Power, Extreme Voltage
- Side Panel DIP Switches: Hidden by security cover, 1 Minute Delay, 2 Minute Delay, 4 Minute Delay, Force Off NO/NC, 12V Mode ON/OFF, GND Mode On, Momentary/Maintained, Primary/Secondary, EVS ON/OFF
- Potentiometer: Side panel, time calibration hidden by security cover, fine tune delay adjust

Control/Status/Triggering (Front Panel):

- Remote Terminal: +5-30VDC IN, 12VDC (12mA) OUT
- SmartSequencing: Phoenix type 4-Pin Connector, with Screw Terminals, Primary & Secondary Links (Current Loop - 1000' nominal)
- Remote Terminal: Phoenix type 5-Pin Connector with Screw Terminals; +12V, STAT, REM, GND, DLY OUT (Class 2 Wiring)
- Force Off: Phoenix type 2-Pin Connector with Screw Terminals, (Class 2 Wiring)

Power Consumption (No Load): 10 Watts

Safety Agency: NRTL-C CSA/NRTL Compliant:

Specifications subject to change due to product upgrades and improvements.

WARRANTY INFORMATION

15 YEAR LIMITED PRODUCT WARRANTY*

Furman warrants to the original purchaser of this product for a period of fifteen (15) years from the date of purchase, that the unit shall be free of defects in design, material or workmanship, and Furman will repair or replace any defective unit.

Full Warranty and Policy information available at
www.furmancontractor.com

CAUTION! WARRANTY LIMITATION FOR INTERNET PURCHASERS

Furman products purchased through the Internet do not carry a valid Product Warranty unless purchased from an Authorized Furman Internet Dealer and the original factory serial numbers are intact (they must not have been removed, defaced or replaced in any way). Purchasing from an Authorized Furman Internet Dealer insures that the product was intended for consumer use, has passed all quality inspections and is safe. Buying through auction sites or unauthorized dealers may result in the purchase of salvaged, failed and/or products not intended for use in the US. In addition, Authorized Furman Internet dealers have demonstrated sufficient expertise to insure warranty compliant installations.

For a list of Authorized Furman Internet Dealers
go to www.furmansound.com