

AMBER SERIES CHANGEABLE MESSAGE SIGN

CMS 700/710/720
PER TEES 2020 CHAPTER 13



The Changeable Message Sign (CMS) 700 Amber Series is designed to display information on freeways in monochrome LEDs. It has an excellent LED optical system that delivers superior contrast with minimal glare, providing sufficient legibility. Meanwhile, its front-right/left door access and heavy-duty cabinet provide convenient access for maintenance.

FEATURES

HOUSING

0.125-inch Thickness 5052-H32 Aluminum Alloy

Exterior Z-bars

0.25-inch Thickness 5052-H32 Aluminum Alloy

Black Coating: Federal Standard 595 Color No. 37038

Applied to the front facing sign

Cream Coating: Federal Standard 595 Color No. 37769

Applied to the sides and rear of the sign surfaces and z-bars

NEMA Enclosure 4X standard

AWS A5.10 per ER5356 Aluminum allow bare welding electrodes

Front, Left or Right-side door access

NEMA 4X rating

ENVIRONMENT

Operating Temperature: -40°C to +85°C

5% to 95% relative non-condensing humidity

Thermostat controlled two (2) independent fans with filter & filter sensor

PIXEL MATRIX MODULE (PMM)

Four (4) guiding / alignment pins and four (4) captive screws

For quick and easy access

Store-and-forward 3-port network switch

Per IEEE 802.3, 802.3u, and 802.x specification

Dual-ethernet ports (RJ-45)

IP addressable with DIP switch, plug-&-play

Spanning tree compliance, data-redundancy

Allow each PMM pixels and communication diagnostic

24VDC

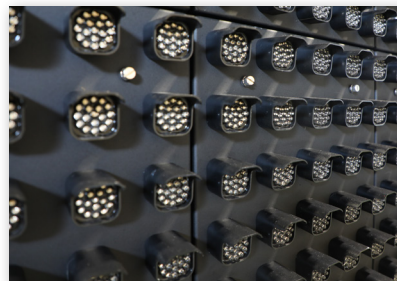
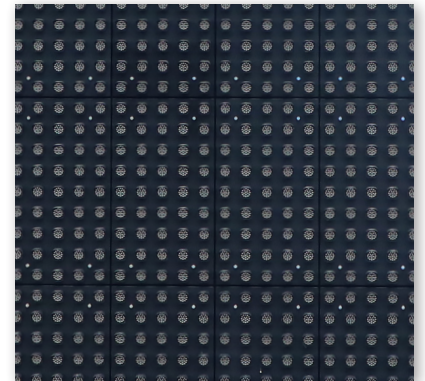
Integrated surface mounted fuse

Overheat & ground fault protection

COMMUNICATION

NTCIP 1203 V3

Ethernet



TECHNICAL SPECIFICATIONS

CMS 700/710/720 PER TEES 2020 ERRATA NO. 2, CHAPTER 13

SMX-Models	AM-CMS700	AM-CMS710	AM-CMS720
Caltrans Models	CMS700	CMS710	CMS720
Dimensions (H x W x D)	86" H x 300" W x 16" D	57" H x 175" W x 16" D	57" H x 105.5" W x 16" D
Weight	1,950 lbs.	1,000 lbs.	750 lbs.
Applied Power	120VAC, 60 Hz		
Max. Power Consumption	1.6KW (13A/120VAC)	1.2KW (10A/120VAC)	0.8KW (7A/120VAC)
Pixel Pitch	2.75" (70mm)	1.75" (44mm)	
Display Full Matrix (H x W)	27 px H x 105 px W	27 px H x 95 px W	27 px H x 55 px W
Max. Luminance Intensity	43 +/- 3 cd per px	20 +/- 5 cd per px	
Viewing Angles	30°		
Type	TYPE 1 PMM	TYPE 2 PMM	
Matrix (H x W)	9 px H x 5 px W		
Sizes	24.65" H x 13.62" W	15.65" H x 8.62" W	
PMM per CMS (H x W)	3 H x 21 W	3 H x 19 W	3 H x 11 W