

EMS SERIES

EXTINGUISHABLE MESSAGE SIGN

EMS8064, EMS8096, EMS8112, EMS8128, EMS8144
BASED ON CALTRTRANS CMS STANDARDS



The Extinguishable Message Sign (EMS) is designed based on Caltrans CMS standards. With full matrix RGB color, Caltrans can display information on freeways, highways, truck scales, toll roads, etc. Capable of storing up to 10 sets of changeable messages, it offers a wide range of a message possibilities. Other EMS dimensions can be built per District needs and specifications.

FEATURES

HOUSING

0.125-inch Thickness 5052-H32 Aluminum Alloy

Exterior Z-bars (for Pole & Overhead Structure Mounting)

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, rear, and z-bars

NEMA Enclosure 4X standard

AWS A5.10 per ER5356 Aluminum allow bare welding electrodes

ENVIRONMENT

Operating Temperature: -35°F to +165°F

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

PIXEL MATRIX MODULE (PMM)

Six (6) alignment pins/thumb 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

24V DC

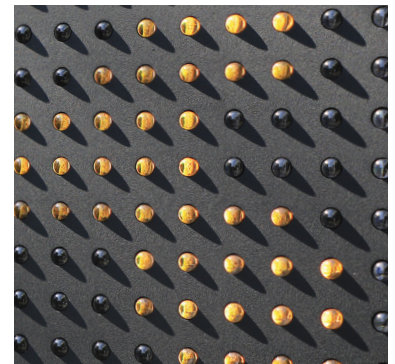
Integrated surface mounted fuse

Overhead & ground fault protection

CONTROLS

Option 1: Contact I/O (110VAC or 24V DC)

Option 2: CAT6 Ethernet (NTCIP 1203 V03 Compliance)



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TECHNICAL SPECIFICATIONS

EMS DESIGN BASED ON CMS STANDARDS. OTHER MODEL SIZES CAN BE GENERATED BASED ON DISTRICT NEEDS AND SPECIFICATIONS.

SMX-Models	EMS8144	EMS8128	EMS8112	EMS8096	EMS8064
Caltrans Models	EMS8144	EMS8128	EMS8112	EMS8096	EMS8064
Dimensions (H x W x D)	36" H x 121" W x 9" D	36" H x 109" W x 9" D	36" H x 96" W x 9" D	36" H x 83" W x 9" D	36" H x 58" W x 9" D
Weight	330 lbs.	315 lbs.	300 lbs.	275 lbs.	250 lbs.
Applied Power	Typ. 2A @ 120VAC	Typ. 2A @ 120VAC	Typ. 1.5A @ 120VAC	Typ. 1A @ 120VAC	Typ. 1.5A @ 120VAC
Max. Power Consumption	Max. 3.5A @ 120VAC	Max. 3A @ 120VAC	Max. 2.5A @ 120VAC	Max. 2.5A @ 120VAC	Max. 2A @ 120VAC
Pixel Pitch	20mm	20mm	20mm	20mm	20mm
Display Full Matrix (H x W)	32 px H x 144 px W	32 px H x 128 px W	32 px H x 112 px W	32 px H x 96 px W	32 px H x 64 px W
Max. Luminance Intensity	24,000 cd/m ²				
Viewing Angles	Vertical 0° to -10° Horizontal -15° to +15°				
Type	TYPE 5 PMM				
Matrix (H x W)	32 px H x 16 px W				
Sizes	25.2" H x 12.6" W				
PMM per CMS (H x W)	1 H x 9 W	1 H x 8 W	1 H x 7 W	1 H x 6 W	1 H x 4 W

MESSAGE APPLICATION EXAMPLES

AMBER TEXT
TWO LINES



FULL COLOR RGB TEXT + LOGO
TWO LINES

