

# Advanced Variable Message Signs (AVMS)

Caltrans Model  
710



Cabinets  
Controllers  
Signals  
**Signs**  
Software  
Specialty

## Overview

McCain's Advanced Variable Message Sign (AVMS) provides advisory information to en route motorists, such as Amber Alerts, accidents, events, road work and estimated travel times, and road closures. Manufactured to McCain's high quality standards, these durable signs make a functional, affordable and aesthetically pleasing addition to any roadway. Designed to meet Caltrans TEES Chapter 8 2009 specifications, AVMS signs can help reduce traffic delays by keeping motorists informed of road conditions and closures so they may alter their routes accordingly.

## Benefits

- Boasts advanced LED pixel matrix module design
- Cuts costs due to higher energy efficiency
- Notifies operator of pixel failure and live sign/ message status
- Provides live status of door open, fan filter, temperature, and humidity alarms
- Facilitates quick and efficient service or repair
- Provides reduced glare and increased message contrast and visibility
- Supports standard assemblies, ensuring component interchangeability

## Product Description

The AVMS Model 710 is an advanced sign that meets all Caltrans Advanced Variable Message Sign requirements and is controlled by NTCIP 1203 or Legacy Sign View software from Caltrans.

The sign is modular in design with interchangeable subassemblies. The weather-resistant LED pixel matrix modules are externally mounted on a rigid lattice and can be removed with the use of only a screwdriver. All modules are interchangeable, low voltage, and use standard CAT5e ethernet cabling, facilitating quick and efficient services and repairs.

The sign uses ultra bright amber LED's to ensure motorist visibility under all environmental conditions.

# Advanced Variable Message Signs

## Standard Features

- PMM Type 1 (63)
- Remote I/O Box
- Test Box
- Temperature Sensor (2)
- Light Sensor (3)
- Fan Box (1)
- Ethernet Switch (3)
- +24 VDC Power Supply (7)
- PDA
- Light Indicator
- Humidity Sensor
- Moxa Controller
- NTCIP 1203 or Sign View software operable

## General Specifications

Dimensions:	300" L x 86" H x 16" D 308" L x 89" H x 21" D with lifting eye bolts and door handles
Material:	5052-H32 aluminum, 0.125" thick
Finish:	PMM: powder coat Sign weldment/housing: latex paint
Color:	Black: front/inside Beige: sides/back/top/bottom
Access:	Front doors (2), right and left
Latching System:	Multi point with 9/16" locking plate bolt
Mounting:	Z-bar brackets on rear
Display Technology:	AllInGaP
Arrangement & Quantity:	PMM: 63 per AVMS, 3 rows x 21 columns Pixel: 45 per PMM, 5 rows x 9 columns LED: 21 per pixel
Luminous Intensity:	AVMS: 9373 cd/m <sup>2</sup> minimum Pixel: 46 cd minimum
Operating Voltage:	AVMS: 95 to 135 VAC, 57 to 60 (+/- 3) Hz PMM: 24VDC ± 2VDC Pixel: 16.8VDC maximum at 40mA
Power Consumption:	Idle/Low: 1.2A 10% all pixels: 6.3A 50% all pixels: 13.2A 100% all pixels: 22.7A 100% typical message: 8.6A
Pixel Inclination:	8°
Pixel Pitch:	2.75" C-to-C
LED Type:	Amber, 592 ± 5 nm
Environment:	Operating Temp: -40° C to +85° C Humidity: 95% (non condensing)
Ventilation:	Thermostatically controlled 102 CFM fan (2), Louvered air intake, pleated filter
Weight:	1,920 lbs

To learn more about  
McCain's Integrated Traffic  
Solutions, please contact  
[info@mccain-inc.com](mailto:info@mccain-inc.com) or  
call (760) 727-8100



*\*Dimensions rounded to the nearest inch*

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