ADVANCED VARIABLE MESSAGE SIGNS (AVMS)

Caltrans Model 710

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.

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Advanced Variable Message Signs (AVMS)

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 eyes 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:	AllnGaP
Arrangement & Quanity:	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/m2 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