



MESSENGER 6000 SERIES

RETROFIT SOLUTIONS

Work Description

The retrofit consists in removing old equipment and installing new LEDs components within the sign housing, some parts are kept and re-used.

You can take the opportunity of a retrofit work to upgrade your VMS system. SESA provides several optional kits.

Please, do not hesitate to contact us with any related questions. Call 1-800-252-6220

1- Basic Retrofit

This is the basic and mandatory retrofit work.

<i>Removed equipment</i>	<i>New equipment provided by SESA</i>
Old Fiberoptic, Flip-disk or LED Display boards	LED Display boards using the latest technology. NEMA TS4 compliant:
Internal Character frame support (typically 3 character frames)	Character frame support
Control devices	Serial interface board
Transformers or Power Supply Units	Power supply PWM with internal ventilation
Light sensors	Dual light sensors
Wiring between Display boards and between display boards and control devices	New flat ribbon Wiring between Display boards and between display boards and Serial interface board. Provide new connectors.
Internal power wires	New power wires and connectors
Controller	Controller with Color screen – NTCIP compliant
Controller battery back-up (UPS) if applicable	Battery and battery charger to allow the controller and communication devices to stay in operation for 8 hours in a case of power failure.



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Some parts are re-used if they are in good conditions:

<i>Existing Sign parts to be re-used:</i>	<i>Existing Controller cabinet parts to be re-used:</i>
Thermostats and heaters	Thermostats and heaters
Ventilation system	Ventilation system
Lighting system	Lighting system
Locks, handles, gaskets, filters...	Locks, handles, gaskets, filters...
Modems and communication systems wherever their location	
Power and communication cables between sign and controller	

2- Option 1: Temperature and Power supply kit

This kit improves environment control and power supply reliability:

Redundant Power supply kit	Provide redundant (N+1) power supply system for display boards. The sign is equipped with one more power supply than needed. In case of one unit failure the extra one is taking over to guarantee continuous operation.
Environment monitoring kit	Provide Temperature and humidity sensors inside the sign and related anti-condensation heaters and fans. If the sign is not equipped or the existing system is not working, our kit will allow air circulation within the housing to avoid extra heat and it will also reduce humidity and avoid condensation.
External Temperature monitoring	Provide outdoor temperature sensor to measure the ambient temperature and display it on the sign.

3- Option 2: Mechanical upgrade kit

This option allows a mechanical upgrade of the sign.

Site survey	SESA engineers will visit the sign and verify the mechanical aspect of the housing
Accessories	Based on the survey, SESA provides and install damaged accessories: Locks, handles, filters, gaskets as previously agreed with the client. SESA maintains all Sylvia parts in stock, for other vendors a detail estimate and feasibility evaluation must be done.
Front face upgrade	The front face of older signs may be scratched and yellowed. SESA can provide and replace front faces for Sylvia signs. We can also estimate the feasibility for signs from other vendors.



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4- Option 3: Wireless kit

This kit provides wireless access to the controller web based software

Wireless connection	A wireless connection can be added in the controller cabinet to allow remote communication from a PC or a PDA with the controller for maintenance.
PDA (Personal Digital Assistant)	Provide a PDA to remotely access to the sign maintenance program within 200 feet

5- Option 4: Central Software

If your existing software is obsolete or not NTCIP compliant, you can replace it by SESA central software

Central control software	Provide, install and test NTCIP compliant central software MERCURE®
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6- Individual Options:

You can choose individual option from the list below:

Flashers	Replace existing flashers or add LED flashers being able to dim with the display area. 2 to 4 flashers per sign.
Pick and choose	Each item of each package can be ordered separately! Pick and choose!

SESA method:

SESA retrofit method reduces the site labor to its minimum by providing new character support frames already equipped and tested in the factory. Other equipments and optional kits are also tested and wired as much as possible before starting site work. When at site, engineers will remove the existing character supports and equipment and replace them immediately with new ones. The existing controller and light sensors will also be removed and replaced. Cabling and new termination will be done at that time.

SESA services:

All retrofits include turn-on, site tests and training.

Time to perform the work:

We estimate that a 3 line of 18 characters signs can be retrofitted in approximately two to three days depending on site access conditions and options.

Delivery:

The standard delivery time for components is 60 days. We need 3 weeks notice to plan the work at site.

Note: SESA policy is to constantly improve its product, all product descriptions are subject to change without notice.