

Highway Data Logging & Monitoring System

Created to be compatible, capable, and versatile with providing compliance and accountability.

M7 Data Logging System (DLS)

Cutting-Edge Data Logging from a Proven Pavement Marking Industry Innovator.

Epic Solutions M7 Monitoring DLS provides real-time monitoring of road marking material applications, ensuring compliance with required specifications and full transparency. It records when, where, and how markings are applied, confirming adherence to required standards.

The M7 Monitoring DLS generates digital maps of road markings, documents product usage, and logs GPS-based data. Reporting features allow users to review any road section via map or database



Compatible with any Brand Stripping Truck

Convert or Upgrade Existing Trucks or Design New Rigs Around The M7 DLS

Monitoring Capabilities
Speed, Application Rates (Mils), Location, Temperature, Pressure, Tank Levels, etc.

Compatible Materials
Paint ▶ Thermoplastic
Epoxy/Poly ▶ MMA

Measurement Sensor Types
Flow ▶ Stroke ▶ Pressure
Laser ▶ Weight

Real-Time Inventory Management

Reduces Materials Waste

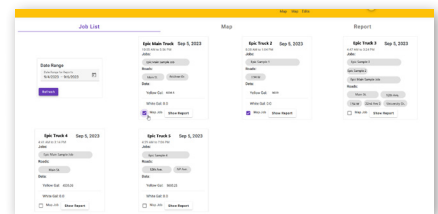
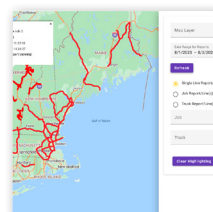
- ▶ Monitor “real-time” material usage via Laptop or touchscreen display

Easy Troubleshooting – Allows operator to control material usage and alerts out-of-spec conditions



GPS Mapping

The GPS system maps exactly where you are on the job. Survey-grade GPS systems available.



Compliance/Accountability Monitoring & Analysis

Provides Real-Time Application Rates On The Roads

- ▶ Confirm mil-rates & bead rates
- ▶ See all parameters of application. Speed, pressure, temperatures, humidity, etc.

Data Analytics

- ▶ Detailed Job History
- ▶ Easy problem resolution (via GPS Mapping / Tracking of material and beads
- ▶ Integrate Retro readings into application rates (overlay the retro readings with the application information)

Epic Solutions M7 Data Logging System Features That Fit Your Road Marking Operations

Thermoplastic Trucks

- ▶ Monitor pounds applied by gun
- ▶ Monitor pressure, temperature, pump RPM
- ▶ Calibration done by weighing material or via laser
- ▶ Laser Analysis Tool
- ▶ Epic Pressure Sensor Analyzer (Patented by Epic Solutions)

Paint / Epoxy / Polyurea / MMA Trucks

High-Pressure Airless Pumps

LINEAR LASER STROKE SENSOR – Laser measured based on distance of stroke. Patented by Epic Solutions.

- ▶ Mil rates are much more accurate.
- ▶ Multiple readings per piston stroke.
- ▶ Accurate within 2-3 skips vs. 10-15 skips with your standard stroke system.
- ▶ Reads pump 20x per cycle vs. 2x per cycle on the standard stroke sensor systems



STROKE SENSOR offered as a substitute if requested.

- ▶ Each pump stroke is measured by a sensor that relays a signal to the PLC.
- ▶ Cost effective option, not 100% accurate as pumps wear over time and could dispense more/less than what operator enters.



Low-Pressure Diaphragm Pumps

FLOW-BY-GUN SENSOR

- ▶ Sensor is inline (after the filter, before the gun)
- ▶ Improved mil rates
- ▶ Accurate within 2 skips vs. 10-15 skips with your standard stroke system
- ▶ Works great with water-based coatings.



Inventory Management

Reduce material waste, save thousands in material and glass bead costs due to real-time GPS monitoring.

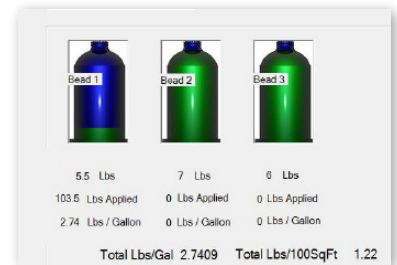


- ▶ Know application rates where the material is being applied via various EPIC sensors on the truck.
- ▶ The Epic DLS allows the operator to real-time-control of material and bead usage.
- ▶ Track material loaded on the truck from the Fill-Tank-Process.
- ▶ Multiple tanks can be filled simultaneously
- ▶ Batch information can be recorded and saved for material
- ▶ If material fails, track the individual batch that failed.

Bead Tanks (Retro-reflectivity)

On the job bead reflectivity -made easy!

- ▶ Specialized load cells monitor weight in bead tank(s)
- ▶ Inside mounts / outside mounts make replacements straight forward
- ▶ Sensors measure volume in tank(s)
- ▶ Calibration easily verified
- ▶ Weights and measures



DLS Sensors & Brain Box



M7 Control Box



Surface Sensor



GPS Sensor



Ambient/
Humidity Sensor

EPIC Solutions is committed to being technology leaders in the highway construction, roadway maintenance, and related industries. We build high-quality machines to fill a need that are safe and improve efficiency. Developed and road tested with the participation of industry experts, these products will perform for you.

