

EBPMS®

ELECTRONIC BRAKE PERFORMANCE MONITORING SYSTEM

AXSCEND | TRAILERMASTER

The smarter way to monitor
trailer braking performance.

 Patented Patented technology, developed by Axscend's UK engineers	 Compliant with DVSA guidelines Recognised alternative to roller brake testing	 Maximised uptime Continuous monitoring keeps trailers on the road	 Live dynamic monitoring Real-time brake analysis whilst in operation
---	---	---	--

INNOVATIVE BRAKE MONITORING TECHNOLOGY

Axscend | TrailerMaster, the leading telematics solution for trailers, incorporates EBPMS® as a standard feature. Developed in 2015 by Axscend's UK-based engineers, it was an industry-first innovation designed to revolutionise trailer brake performance monitoring.

HOW EBPMS WORKS

EBPMS continuously monitors every brake event of a trailer in real-time during operation. It analyses and filters braking data to ensure only valid information is used to calculate a brake performance value. This data is reported to operators via the Axscend Portal, providing actionable insights into trailer braking efficiency.

The system utilises data from the trailer's Electronic Braking System (EBS) and TrailerMaster telematics, accounting for variables such as road angle and bogie load to calculate deceleration (change in speed over distance and time). These data points are plotted on an easy-to-read graph against the DVSA pass mark for braking performance.



ADVANTAGES OVER TRADITIONAL METHODS

Traditionally, trailer brakes are tested periodically using roller brake testers (RBT), giving a static score under simulated conditions. EBPMS offers a dynamic, continuous alternative, reducing the requirement for RBT's down to just one annually during the MOT.

 Dynamic testing Efficiency calculated during normal operation, across varying load and road.	 Real-world data Measured at highway speeds, not slow speeds on roller testers.	 Correct temperature Brakes tested while operating at their normal working temperature.
 Proactive maintenance Identify and address issues before they escalate into failures.	 Flexible reporting Report at intervals for statutory needs or analyse specific periods for deeper insight.	 Maximised uptime Continuous monitoring helps keep trailers on the road longer.

EBPMS REPORTING

Scores are calculated every 24 hours, incorporating the latest brake event data into the sampling period. Sampling periods can be adjusted to align with trailer service inspections. Reports can be downloaded via the online portal, reviewed, and added to compliance records alongside service inspection documentation. It is important to note that EBPMS gathers data for the entire tractor-trailer combination, making it not directly comparable to roller brake test results. A poor EBPMS score may indicate issues with the tractor unit's braking system. In such cases, a laden graduated roller brake test is recommended for further investigation.

FLEXIBILITY & COMPATIBILITY

TrailerMaster is an independent system that can be installed on any articulated semi-trailer equipped with an EBS (*some exceptions apply). It is suitable for both new trailers and retrofitting existing fleets, making it a versatile solution for operators.

COMPLIANCE WITH DVSA GUIDELINES

Recognised in the DVSA's Guide to Maintaining Roadworthiness, EBPMS is a cost-effective alternative to roller brake testing, providing greater control over brake performance assessment while delivering deeper diagnostic insight, improved testing flexibility, and enhanced confidence in compliance and safety.