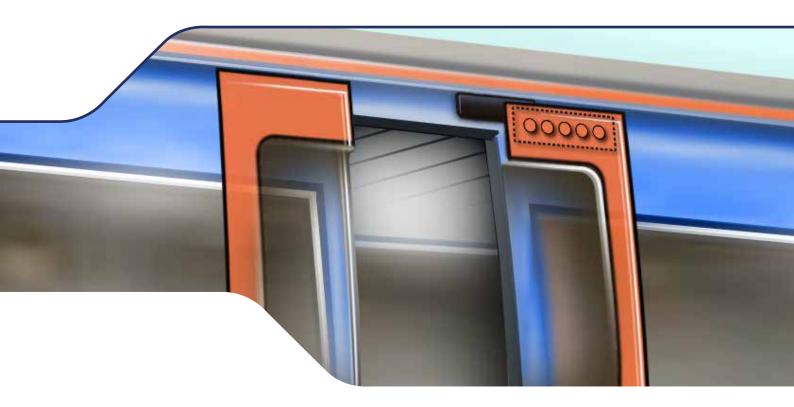# Door Diagnostic and Monitoring System

from Unipart Rail

Offers a cost effective complete solution for remotely monitoring the condition and performance of train doors whilst in operation.

Real time monitoring of door performance to enable early failure identification

Cost effective installation process

Automated communication of all data

Sampled data can be transmitted over an existing communications network

Offers a cost effective complete solution for remotely monitoring the condition and performance of train doors whilst in operation.

Door Diagnostics Unit solution

The DDU is an innovative solution to monitor the performance of train door systems. It is non-intrusive, low cost and delivers automated 'health indicators', allowing effective and targeted maintenance.

The solution comprises a DDU and door strip, the DDU is attached to the train in a fixed position while the door strip is attached to the train door (moving part). The DDU requests data from the door strip at 15ms intervals.

As each tag (on the door strip) passes over the DDU, data is wirelessly transmitted back to the unit. The powerful onboard processors determine the 'health' of the door. This data is transmitted over a network to a database for storage and analysis, where historical trends can be plotted.

From the database a detailed profile of the door behaviour is obtained, including velocity curves at each stage of an open or close process.

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