



“Powelectrics offer incredibly robust, reliable and easy-retrofit IIoT solutions. In various applications, they deliver the data Angel need to understand normal performance and to identify anomalies. Like Angel, Powelectrics are committed to continuous improvement. For ten years their technology has really helped us understand what is happening on our trains, so we can continue to offer industry leading asset management services.”

GRAHAM DUTTON
Product Technology
Manager



The task

Angel Trains is one of Britain’s leading train asset management companies. Around 10 years ago they embraced Powelectrics IIoT kit to help define what normal train operating scenarios were, in order to identify anomalies and assist customers with strategic decision-making. The objectives were to extend asset longevity, eliminate unscheduled maintenance, reduce costs and to improve passenger safety and comfort.

The result

Economies can be driven by understanding and modifying processes to avoid issues. It is now possible to use data as a basis for strategic decision making, enabling Angel to differentiate themselves from competitors.

The solution

Sensor data is now collected regularly and reliably on a range of parameters including exhaust, coolant, oil and charge air temperatures, saloon temperature, humidity and CO2 levels, fuel and effluent tank levels. Alerts are generated, so timely action can be taken to minimise issues.

Summary

- | Excellent customer service
- | Reduced operating costs
- | Improved passenger safety
- | Improved train performance
- | Extended longevity