TwinTrain - Interface

ELECTRONIC SIMULATION OF A COUPLED VEHICULE

TwinTrain-Traction by SPHEREA transforms the testing of electrical couplings in rail vehicles. Eliminating the need for a second vehicle, the system swiftly, safely, and efficiently simulates all required interfaces. This cutting-edge solution features wireless communication, versatile connection options, advanced energy management, and both customisable and automated test sequences.

Operation is simple and intuitive via tablet either directly at the coupling or remotely from a transport trolley. The latest generation of TwinTrain-Traction is built on SPHEREA's proven UTMS.neXT platform, guaranteeing long-term availability for over a decade. As a future-proof investment, it helps reduce operating costs, enhance system uptime, and deliver maximum flexibility.

WHY CHOOSE TWIN TRAIN TRACTION

> **Reduced maintenance times without additional vehicles**

Maintenance times are significantly reduced because no additional vehicles are required for testing. This streamlined approach saves resources and increases operational efficiency during routine inspections and diagnostics.

> **Adaptable for integration across multiple vehicle types**

The system is engineered for straightforward retrofitting, enabling seamless integration into existing rail vehicles without the need for significant structural modifications. Its modular and flexible architecture allows deployment across a wide range of vehicle types, ensuring broad compatibility and long-term operational value.

> **Optimised operational and material efficiency**

By streamlining the testing process, the system significantly reduces both personnel and material costs. Its efficient setup and operation require fewer resources, making maintenance and diagnostics more cost-effective and timesaving.

APPLICATIONS

> Maintenance and commissioning of streetcar and mainline systems
> Multiple traction tests
> Functional tests for electronic coupling

FEATURES

> Coupling signals: TCN, WTB, ETB, Ethernet/TRDP
> Discrete signals: 24 V / 36 V / 110 V
> Passenger information systems
> Audio signals

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