TwinTrain – Traction

Simulation of a coupled vehicle

SPHEREA

TwinTrain Traction

SPHEREA's TwinTrain-Traction multi-traction test system replaces the required second test vehicle.

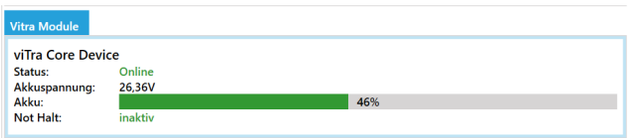
The reliable function of the electrical couplings and the interaction of several vehicles are essential for smooth operation in multiple traction. In conventional maintenance operations, this functionality is checked by test coupling two vehicles. SPHEREA's multiple traction test system TwinTrain-Traction replaces the additional test vehicle. TwinTrain-Traction is recognised as a coupled vehicle and simulates all interfaces. This allows all functions transmitted via the coupling to be verified. Depending on the application, the TwinTrain-Traction assumes the role of a leading or a guided vehicle. The TwinTrain-Traction ensures the operational readiness of the control and information systems in the rail vehicle and offers an intuitive and holistic operating concept for performing and logging all tests. The test system is attached to the respective coupling by means of a vehicle-specific adapter. This allows it to be used on different types of vehicles. The design of the core device allows the retrofitting of further modules for future testing tasks.

Advantages

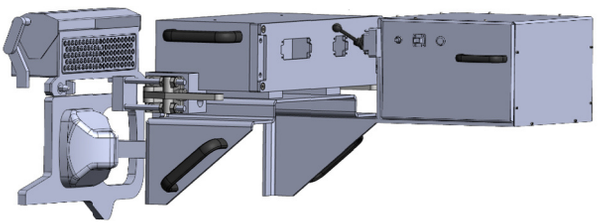
- Shortened maintenance times without additional vehicles
- Retrofittability and application on different vehicle types
- Reduced personnel and material costs
- Uniform test procedure for quality assurance
- Retrofittability and application
- Digital logging

Technical Highlights

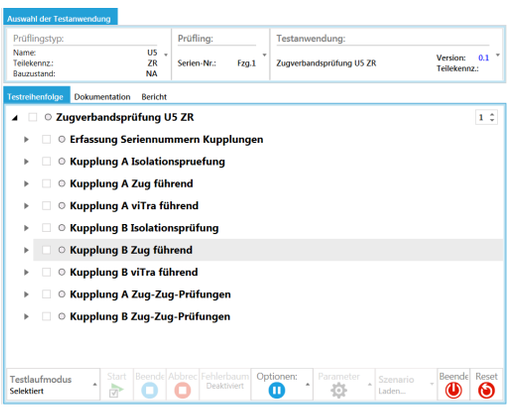
Continuous condition monitoring



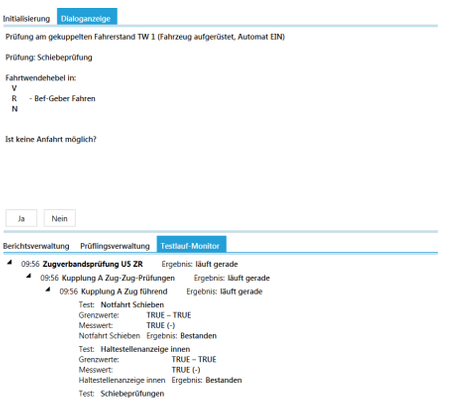
Adaptability to different vehicle types



Complete software-guided test procedure



Test run overview and User instructions



Field of application

- Maintenance and commissioning of tram, metro and mainline systems
- Multiple traction tests
- Functional tests of the electronic coupling
- Maintenance

Technical Parameters

Coupling signals

TCN

WTB

ETB

Discrete signals

up to 96 pins

Possibility to switch between 24V and 110V voltage

Passenger information

IBIS

Audio Signale

Retrofits and extensions through modular system design

System

Secure WLAN connection between control unit and test system

integrated safety card to prevent driving

emergency stop switch

Battery operation

Can be operated by one person

Our solutions for your mission in safety and mobility!

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