

Technical Parameters

Compressed air connections

6 measuring inputs

0-16bar

1 output for loading simulation

0-9bar

1 supply input

0-10bar

Network technology

Latest WLAN standard

Accumulator

24V, 6600 mAh

Our solutions for your mission
in safety and mobility!



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TwinTrain – MultiBrake

Simultaneous testing of brakes



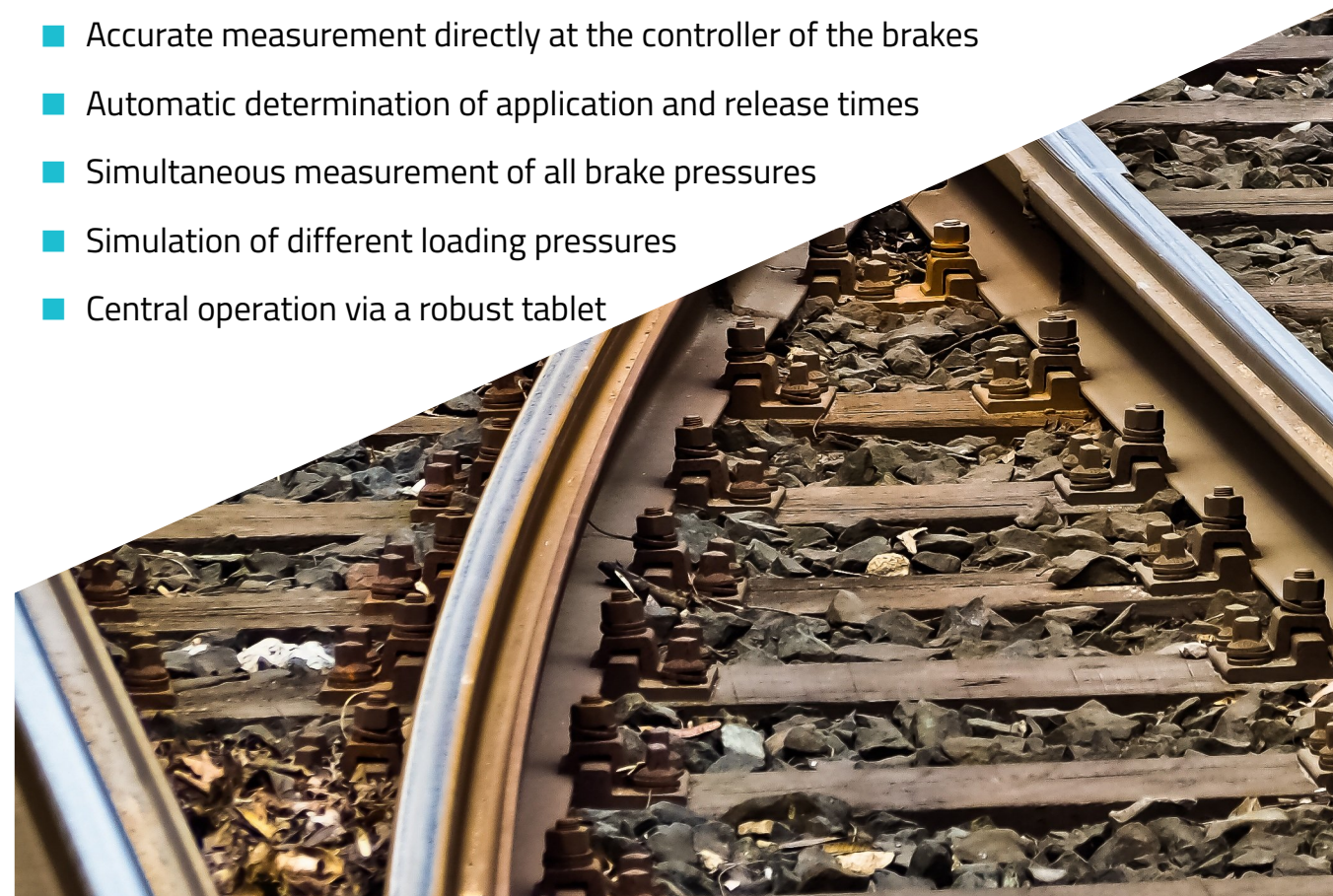
TwinTrain MultiBrake

The TwinTrain-MultiBrake allows efficient testing of the braking system with the acquisition of all relevant parameters on any number of brake units at the same time.

The TwinTrain-MultiBrake is used for testing the braking system on rail vehicles. The system is composed of a flexible number of measuring modules, as required. Especially on multiple units with a distributed braking system, measurements have to be taken at different points during a brake test. The battery-powered measuring modules of the TwinTrain-MultiBrake are installed directly on the test objects (brake controllers). Since they are provided from the vehicle's compressed air supply, there is no need for an external supply and the laying of long hose lines. Each measuring module can generate a simulated pressure, e.g. a loading pressure, and measure a variety of brake pressures. The operator controls the modules, which are connected by radio, centrally from an operating device. All pressure values are permanently in view. The various simulation pressures can also be set directly. Real-time acquisition of the pressure values allows automatic recognition of application and release processes and determination of times. SPHEREA's TwinTrain-MultiBrake makes it possible to test on all bogies simultaneously. If desired, complete test sequences can be programmed according to manufacturer specifications. The sensors can be calibrated.

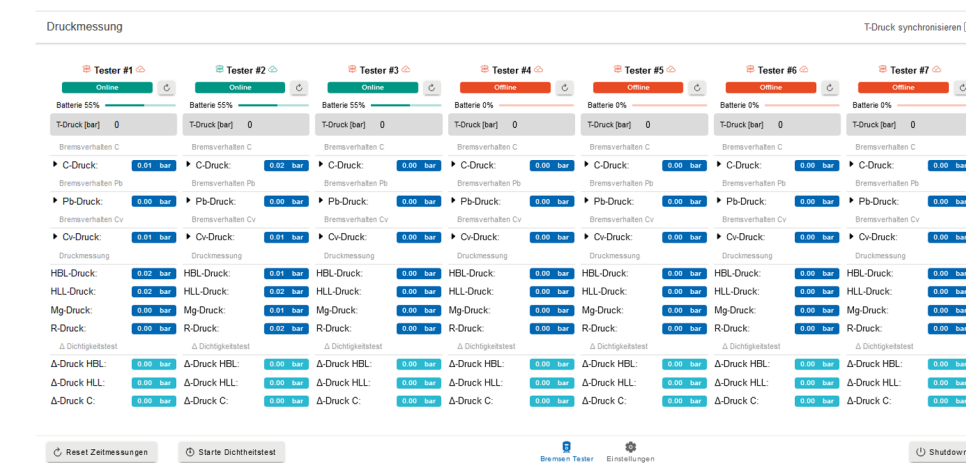
Advantages

- Simple and fast installation on the vehicle without time-consuming laying of hose line
- Accurate measurement directly at the controller of the brakes
- Automatic determination of application and release times
- Simultaneous measurement of all brake pressures
- Simulation of different loading pressures
- Central operation via a robust tablet



Technical Highlights

User interface



System overview / use and storage



Application Area

- Commissioning
- Maintenance
- Expandability with measuring plates to test the mechanical force of the brake