



## NT 800-2

Distributed HV wiring tester



flexible to use



efficient



high modularity



HV wiring tester  
for the rail sector

Up to  
**131.072**  
test points

Up to  
**40%**  
faster set-up

HV tests DC  
up to  
**6000 V**

HV tests AC  
up to  
**5000 V**



# NT 800-2

at a glance



## Process optimization

Optimize the production process by reducing cycle times and track occupation times.



## High modularity

Plug-and-play principle and a standardized 19" system structure guarantee a high degree of modularity.



## Fast and easy adapting

Test point units distributed and networked around the test object allow up to 70% shorter adapter cables. The base unit and test point units are only connected via bus cables.



## MES connection via OPC UA

Centrally download test results and production data using the optional OPC UA protocol.



## Compatible with adaptronic software

Work as always with all adaptronic software products - from test control to data import.



## Transparency – at all times – about everything

Keep an overview at all times – whether preparing test data or reporting, sophisticated functions give you quick access to the data relevant to you.



## Individualization to customer requirements

Customer-specific interfaces, intelligent adapter cables or special reporting requirements – individuality is one of our strengths – contact us.

Extract from our previous customers

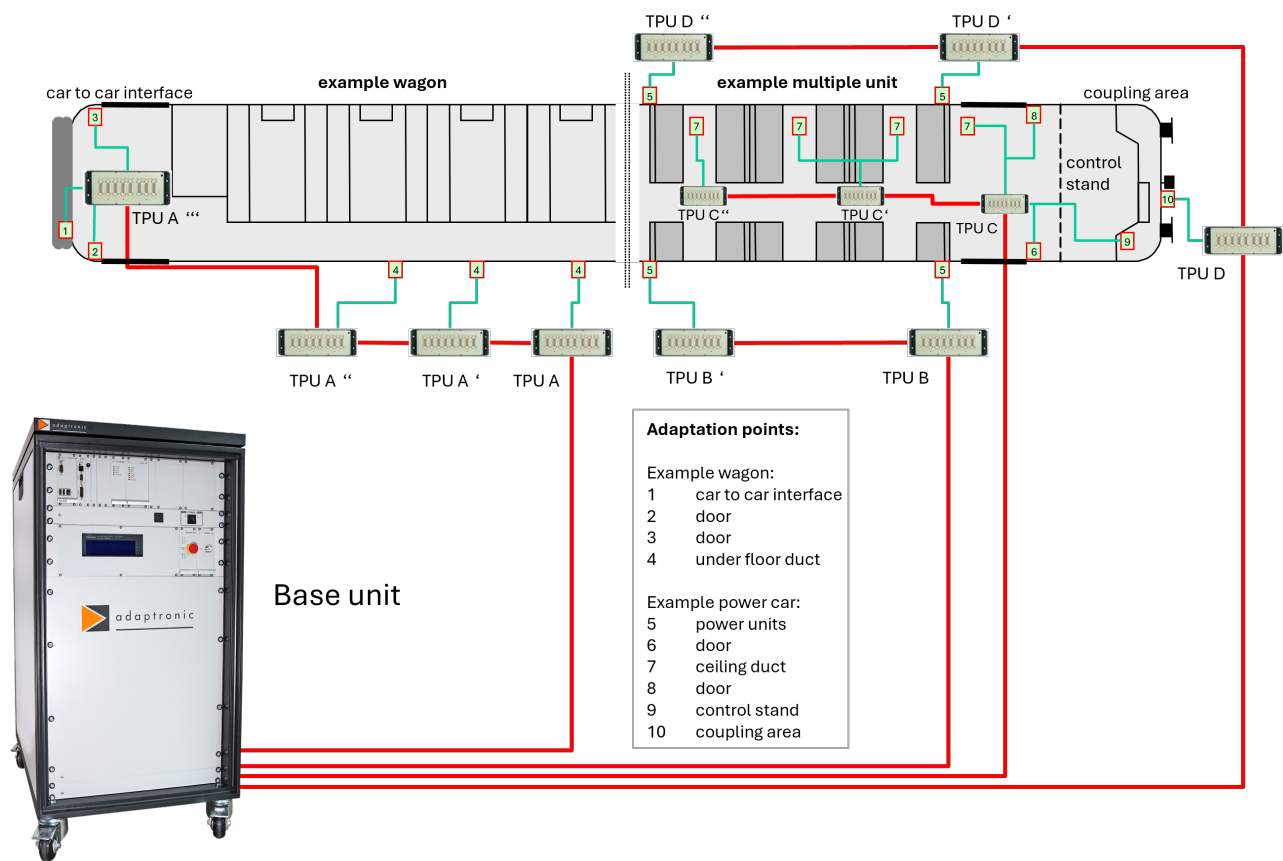
**SIEMENS**

**STADLER**

# NT 800-2

for rail technology

## System example with base unit and test point units (TPUs)



### Features

- Distributed test system for HV tests of large test objects such as locomotives, traction units, wagons, etc.
- Test point units (TPUs) arranged like satellites around the test object are connected to the NT 800-2 base unit via bus cables.
- The test point units can be designed with customer-specific interfaces.
- Proven adaptronic Software NT Control:
  - fast test program creation
  - instructions for support when adapting the test object
  - automatic test sequence with display of the test steps
  - recording of all test steps and test results
- Optional data connection to MES for example via OPC UA

### Technical data NT 800-2

Test points	max. 131.072
<b>Low voltage test DC</b>	
Test voltage / test current	max. 35 V / max. 100 mA
Low voltage tests	<ul style="list-style-type: none"><li>– continuity test</li><li>– short circuit test</li><li>– component test: resistors, capacitors, diodes, Zener-diodes, LEDs</li></ul>
<b>Insulation test DC</b>	
Test voltage	40 – 1500 V
Threshold insulation test	500 kΩ – 2 GΩ (optional up to 10 GΩ)
<b>Dielectric strenght test AC/DC</b>	
Test voltage / test current AC	50 – 5000 V / max. 500 mA
Test voltage / test current DC	50 – 6000 V / max. 25 mA
<b>Insulation test according to DIN EN 50343 and DIN EN 50166</b>	
	Wire against wire, wire against housing, group against group, Group against group and housing Double insulation test
<b>General</b>	
Power supply	400 VAC (3-phase / 50 – 60 Hz)
Interfaces	<ul style="list-style-type: none"><li>– up to 8 TPU bus interfaces for connecting TPUs</li><li>– up to 16 TPUs / max. 90 m line length per interface</li><li>– safety circuit to safeguard the workplac</li><li>– connection options for a red/green warning light, foot switch, test result lamp, acoustic signal</li><li>– pin number probe for test point identification</li></ul>
Dimensions (W × H × D)	Base cabinets: 25 RU: 600 mm × 1355 mm × 800 mm or 30 RU: 600 mm × 1930 mm × 800 mm TPU 16/4: 530 mm × 230 mm × 650 mm TPU 16/7: 530 mm × 350 mm × 650 mm TPU 32/11: 530 mm × 530 mm × 650 mm

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