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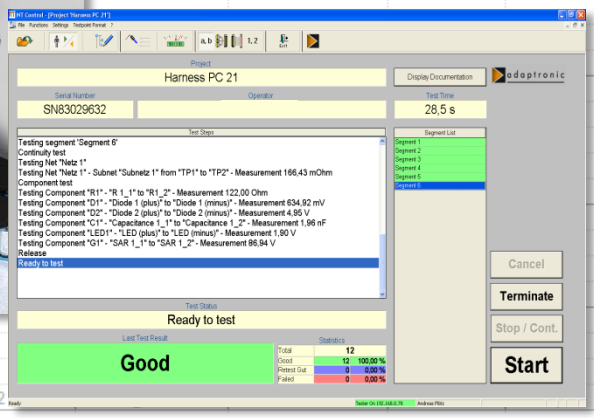
High Voltage Distributed Test

NT 800-2

5000 VAC
500 mA
6000 VDC



NT 800-2 – flexible tester for railcars

System design:

- Distributed test systems consist of a base unit (control unit and measurement electronics) and TPUs (Test Point Units), which contain the test points. The remote controlled TPUs can be arranged as satellites around the UUT.
- High modularity in hardware and software
- Later test point expansion on „plug and play“ principle
- Large variety of application specific test point interfaces

System benefit:

- Process optimization by reduction of cycle times and track occupation time
- Reduction of serial production costs
- Verifiable coverage of the relevant standards, e.g. DIN EN 50343 / EN 50155
- Reduction of the adapter cable lengths up to 70 %

Usage especially for the test of large scale UUTs

- Pre-fabrication and initial operation of railcars, locomotives, coupled carriages etc.
- Supplying industry of vehicle components like cable ducts, switchboards, mounting plates, driver desks etc.
- Flexible usage inside the test facility; centralized and decentralized arrangement of TPUs possible

Ensuring of your product quality by high system availability

The high reliability of the adaptronic test systems, our quick response service and more than 30 years of experience make a convincing contribution to the quality assurance of your products.

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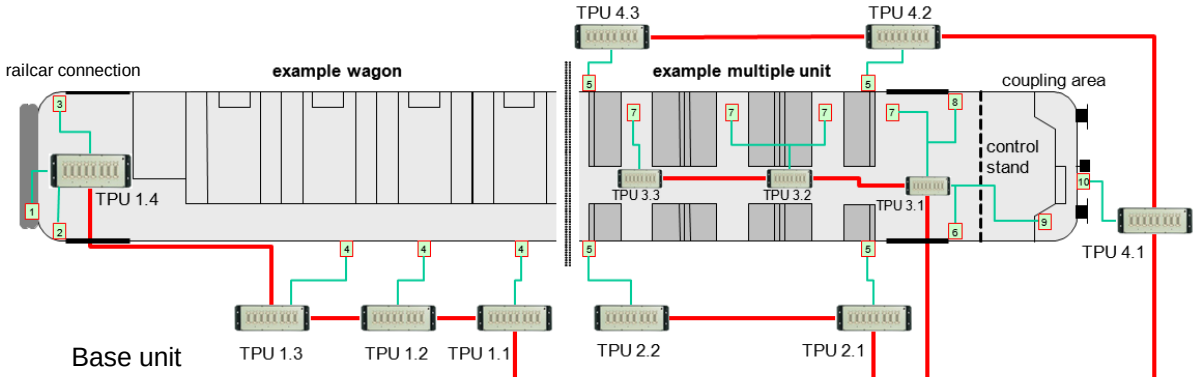
NT 800-2 System Overview (Example)



Base unit

Adaptation points:

Example wagon:
1 car to car interface
2 door
3 door
4 under floor duct

Example power car:
5 power units
6 door
7 ceiling duct
8 door
9 control stand
10 coupling area

TPU tower with scateboard

TPU types	compact	concentrated	maximal	universal
				
Type	**TPU 16/4**	**TPU 32/8**	**TPU 16/7**	**TPU 32/11**
Max. test voltage	1500 VDC / 1060 VAC	1500 VDC / 1060 VAC	6000 VDC / 5000 VAC	1500 VDC / 1060 VAC 6000 VDC / 5000 VAC
Max. no. of test points	1,024	2 x 1,024	1,024	2 x 1,024

Mixed matrix operation:

Cost optimization by integration of different test voltage levels in one overall system

Possible test voltages: 1500 VDC / 1060 VAC, 2150 VDC / 1500 VAC, 2830 VDC / 2000 VAC, 3750 VDC / 2650 VAC, 5100 VDC / 3600 VAC, 6000 VDC / 5000 VAC etc.

Interfaces
- USB
- Ethernet
- Pin Number Probe

Insulation test (double)
up to 6000 VDC / 5000 VAC

Function test

External programming station

Server

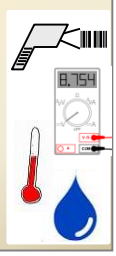
Open Wire Probe OWP02

Mobile operating panel

Fault location and repair

Remote maintenance

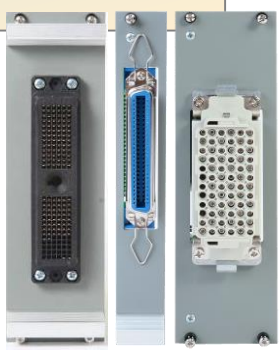
Reporting
- Documentation
- Measurement values
- Temperature
- Humidity



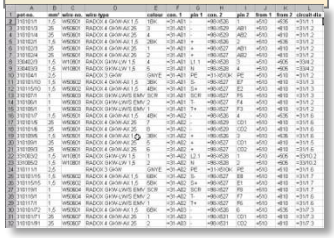
Printer File

Intelligent adapter cables

Test Point Interfaces
selectable



Data import



Testing and programming with NT Control