NT 800-5

for large test objects

- space-saving
- efficient
- time-saving

The efficient way to test long cables

LV-tests up to
35 VDC / 100 mA

TPU/LRU
Test Point Unit
Line Replacement Unit

ATA
Active Termination
Adapter

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NT 800-5
at a glance

Process optimization

Optimize the production process by parallelizing electrical testing and other manufacturing steps. This results in shorter cycle times

Cost reduction for series products

Massive cost savings thanks to optimized components, automated test program generation and perfect troubleshooting features.

MES connection via OPC UA

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

Reduced fault costs

Detailed information in case of a faulty wiring like kind of fault, location, measruement value and.

Compatible with adaptronic software

Work as always with all adaptronic software products – from importing data to test control and data analysis.

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.

Space-saving

Miniaturization of the components required for testing means more space is available in the working environment.

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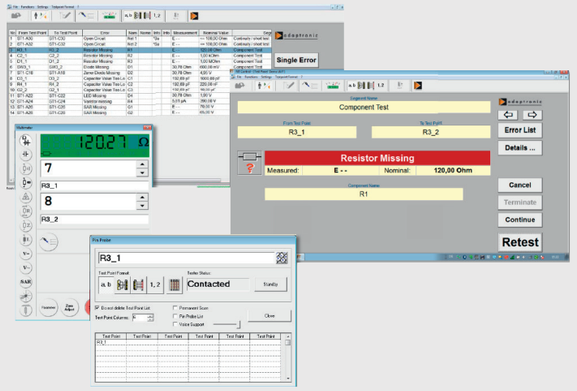
Main Components

Main Tester



The main tester consists out of CPU, measurement generators and bus interfaces. It provides all signals to external devices like TPUs, LRUs and ATAs. The tester is controled via NT Control, the adaptronic software for testprogram generation and test excecution.

NT Control



NT Control is the programming and operating software of all adaptronic testers. It allows a test program generation with a graphical user interface and confortable trouble shooting in case of wiring mistakes.

Line Replacement Units



The Line Replacement Units are equipped with testpointcards, BUS Interface and a control unit. It´s used to connect the AC harness directly at the LRU Racks. adaptronic can offer all MCU sizes and ARINC types. Up to 16 LRUs á 512 Testpoints can be connected on one Bus string

Test Point Units



The Test Point Units are equipped with testpointcards, BUS Interface, a control unit as well as eight 38999 circular connectors to connect adapter cables. Up to 16 TPUs á 512 Testpoints can be connected on one Bus string.

Active Termination Adapter



The Active Termination Adapters (ATA) are used to connect the AC Cable harness directly. The units are communication via the harness itself to the tester. That allows a small unit without batteries or wifi modules. The ATA can be equipped with up to 60 testpoints for one or more connectors. A further advantage is an optical indication in case of wiring mistakes. The operator directly see the dedicated connectors and get the measuring result on a Laptop or Tablet. The mating connectors can be mounted directly or via short adapter cables.

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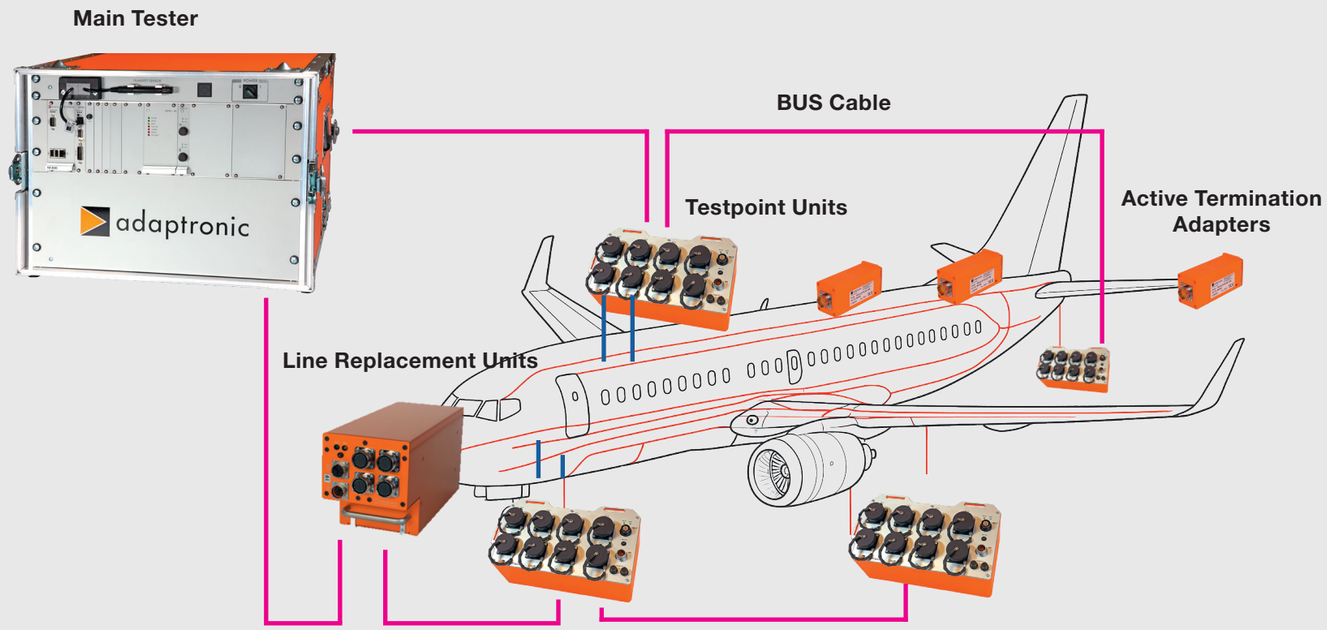

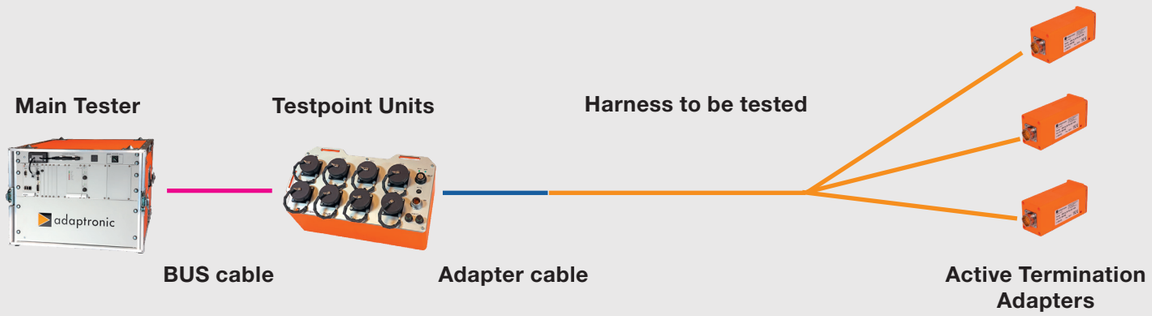

Technical data NT 800-5

Test points	512 per Testpoint Unit / max. 131.072
Low voltage test DC	
Test voltage	max. 35 V
Test current	max. 100 mA
Continuity test threshold	1 Ω – 1 kΩ
Short-circuit test threshold	20 kΩ – 10 MΩ (optional up to 100 MΩ)
Component test	Resistors: 1 Ω – 10 MΩ (optional bis 100 MΩ) Capacitors: 10 nF – 20 mF (optional ab 100 pF) Diode, Zener-diodes, LEDs
General	
Power supply	100 - 240 VAC (50 - 60 Hz)
Interfaces	– up to 8 TPU bus interfaces for connecting TPUs – up to 32 TPUs / 90 m line length per interface – Open Wire Probe Interface – Pin number probe for test point identification - MIL 38999 64 PIN connectors for adaptercable
Dimensions (W × W × D)	Tester: 530 mm × 265 mm × 650 mm (other housings available) Testpoint Unit: 306 mm × 160 mm× 112 mm

Highlights

– Small Foodprint and weight
  - less than 5kg per Testpoint unit
  - light and flexible BUS Cable
  - flexible configuration
  - modular and expandable
  - less adapter cables
– Proven adaptronic NT Control software
– Optional semi-automatic data import with UniCAD
– Compatible with Active termination adapters and LRU Test equipment

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Options



Open Wire Probe

The open wire Probe is used to measured different points in the UUT where no connectivty via an adapter cable is possible. This could be open wires or terminals.



Storage Solutions

Customized storage solutions for adapter cables, Active Termination Adapter and other accesories. Also smart solutions with tracking option are available



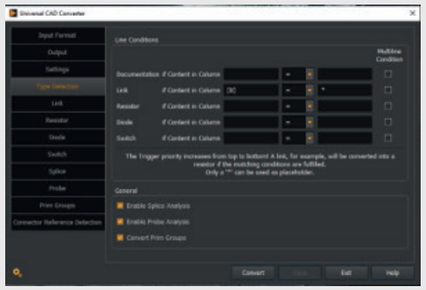
Fixtures

Customized test fixtures to optimize the complete testing steps.



Adapter Cables

Adapter cable design, procurement of connectors as well as manufacturing and testing.



Software Solutions

Software options to import test datas and generate complete test programs automatically.

Interafces to 3rd party databases like SQL or OPCUA

Turnkey Solution

– Feasability Studies
- Customer driven developments
- Design Studies
- Software development
- Adaptercable design
- Engineering Procurement Construction
– On Site Services

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