NT 800-1

Distributed wiring tester



- flexible
- efficient
- modular

Wiring tester for aircrafts and spacecrafts

Up to
131.072
test points

Tests up to
1050 VAC
1500 VDC

100 %
conform with
DIN EN 2283

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NT 800-1
at a glance

Reliability

Over 15 years of experience in testing highly sensitive devices and more than 50 systems delivered. In-house hardware and software development.

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 everthing

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

AIRBUS

PILATUS

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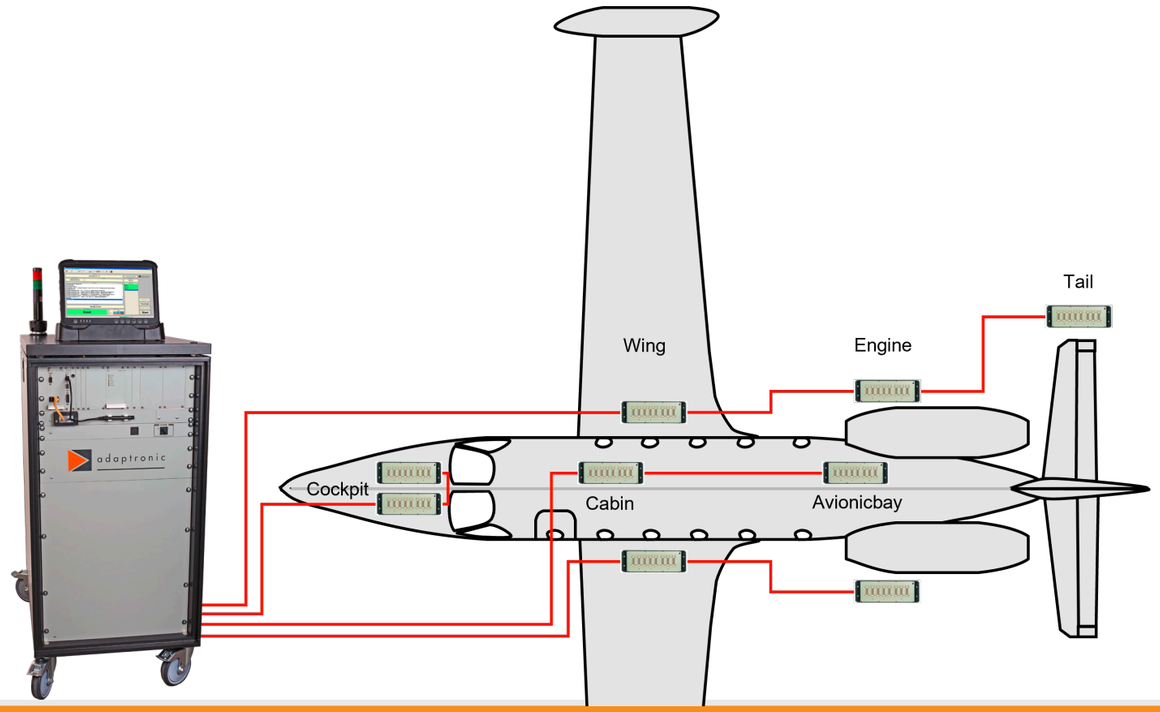
System example with base unit and test point units (TPUs)



Features

– Distributed test system for tests of large test objects such as airplanes, helicopters, satellites and their subassemblies.
– Test point units (TPUs) arranged like satellites around the test object are connected to the NT 800-1 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 800-1

Test points	max. 131.072
Low voltage test DC	
Test voltage / test current	max. 25 V (optional 250 V) / max. 100 mA
Continuity threshold	0.5 Ω – 1kΩ (optional from 1 mΩ as Kelvin measurment / optional detection of short time interruptions ≥ 1 µs)
Short circuit test threshold	20 kΩ – 1 MΩ (optional up to 100 MΩ)
Component test	Resistors, capacitors, diodes, Zener diodes, LEDs, varistors, optional inductances
Insulation test DC	
Test voltage	40 – 1500 V
Threshold insulation test	500 kΩ – 2 GΩ (optional up to 10 GΩ)
Dielectric strenght test AC/DC	
Test voltage / test current AC	50 – 1060 V / max. 120 mA
Test voltage / test current DC	50 – 1500 V / max. 25 mA
Measurements on communication cables	
	– Optical fibers – Twisted pair cables
General	
Power suppply	100 - 240 VAC (50 – 60 Hz)
Interfaces	– up to 8 TPU bus interfaces for connecting TPUs – up to 16 TPUs / max. 90 m line length per interface – safety circuit to safeguard the workplace – connection options for a red/green warning light, foot switch, test result lamp, acoustic signal – pin number probe for test point identification
Dimensions (W × H × D)	Base cabinets: 12 RU: 600 mm × 160 mm × 600 mm 20 RU: 600 mm × 1070 mm × 800 mm or 25 RU: 600 mm × 1355 mm × 800 mm Test point units will be designed depending on teh application.

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