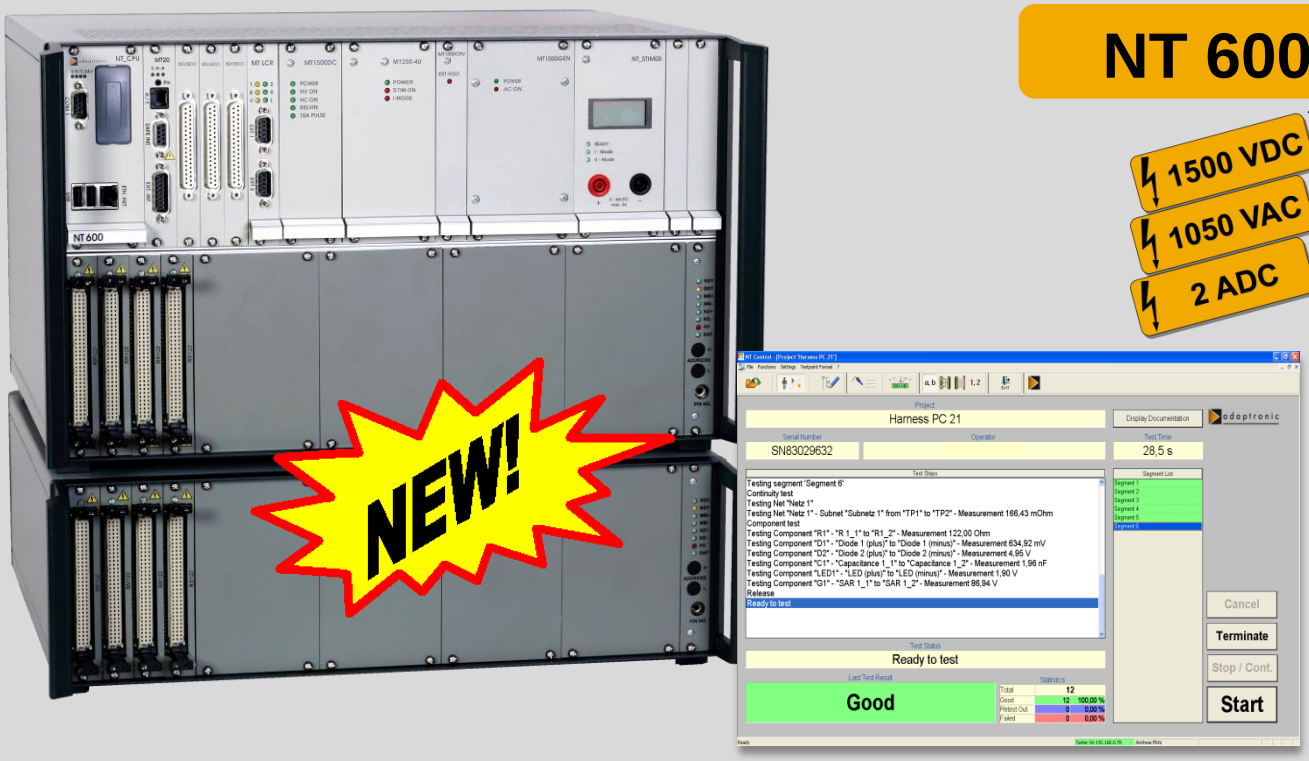
adaptronic

Modular Wiring Tester

NT 600



NT 600 – high flexible – extensive expandable

- Easy operation via PC with control software NT Control
- Extensive result reporting to file, to printer or via database connection*
- Extensive display possibilities and tools for the fault location in the unit under test
- Up to 1024 test points in the base unit, expandable vie additional units up to max. 5120 test points
- Continuity test, short-circuit test and component test
  Optional:
  - High current test up to 2 ADC
  - Hoch voltage test 1500 VDC
  - Dielectric strength test up to 1050 VAC
- Windows® Embedded CE
- Remote maintenance

Modular, powerful

Das NT 600 is the ideal entry-level tester – easy expandable for future test requirements.

- Low start-up costs
- Easy expandable:
  - Additional measurement generators (DC / AC)
  - LCR measurement bridge
  - Test point expansion via additional units
  - Four-wire measurement from 100 µOhm
  - Insulation tests up to 2 GOhm
- Test table support

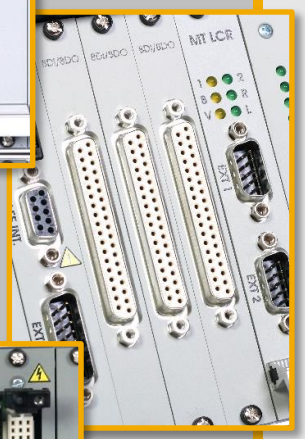
Ensuring of your product quality by high system availability

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

* optional

NT 600 Options

Measurement electronics expansions



to the base equipment MT20 up to 25 VDC / max. 25 mA

- Measurement generators:
  - MT250-40 up to 40 VDC / max. 100 mA
  - MT250-250 up to 250 VDC / max. 10 mA
  - MT1500DC up to 1500 VDC / max. 2 A
    High voltage insulation test / high current continuity test
    (optional up to 40 VDC / 10 A pulsed)
  - MT1000AC up to 1050 VAC / max. 3 mA
    (optional max. 5 mA)
    Dielectric strength test AC
- Internal AC measurement bridge MT_LCR for the test of inductances, capacitances and resistances
- Voltage measurement device MT_EXT for the voltage measurement up to 700 VDC and 500 VAC (max. 400 Hz)
- Four-wire (Kelvin) measurement for measuring low resistances from 1 mOhm or 100 µOhm

Function test

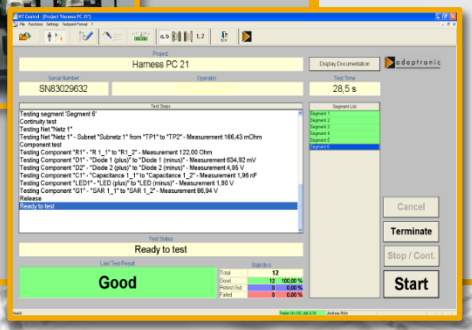
- Stimulus cards
- Stimulus sources
- Test and programming of one-wire devices
- Total integration of camera systems for visual tests
- ProfiNet, LIN-, CAN-, Mod-Bus TCP, other bus systems on request

Elaborate number of interfaces

- Digital inputs and outputs 24 V
- Extern Interface (standard)
- Safety loop (standard)

etc.

NT Control test and programming software



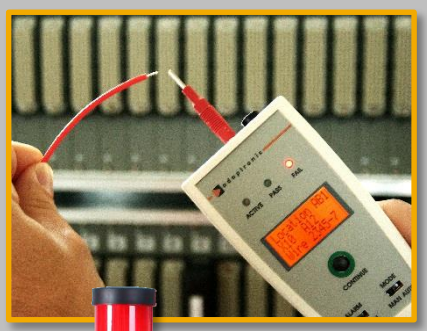
- Graphic user interface with clear test display
  - Operating buttons, test status, statistics
  - In the error case display as error list or single error
- Editors for net lists, link lists, insulation point lists (prim lists) and component lists, function test editor
- Easy realization of special test procedures
- Comfortable multimeter function

NT Control is part of the delivery!

For further information about the wide-range of features please note the NT Control product information.

Open Wire Probe

- Intelligent pin number probe
- Test point display
- Status display
- Operation modes automatic and manual



Operating and display options

- Foot switch for test start
- Warning lamp for high voltage tests
- Test result lamp

Temperature and humidity logging

- Combined temperature and humidity sensor
- Interface at the NT 600
- Temperature and humidity available in NT Control

Comprehensive possibilities of interface boards and adapter cables

- Interface boards for the adaption of the adaptronic interface to existing adapter cable connector systems
- Adapter cables with adaptronic standard interfaces, open cable ends for the adaption by the client or application specific special adapter cables

Additional test point units

- Up to 1024 test points each unit
- Max. 4 additional units with max. 4096 test points can be operated from a NT 600 (with max. 1024 test points)
- Positioning of the base unit and the additional units directly side by side or one upon the other

Additional services

- Training for programming and testing with NT Control and NT 600
- Calibration service
- Application specific assistance

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Test program generation and testing with NT Control

With the user friendly software NT Control it is comfortable to generate, edit and to manage test programs as well, as to carry out tests.
The data transfer between a PC with NT Control and a NT 600 takes place via network.
NT Control is necessary for the operation of the NT 600 and part of the delivery. NT Control can be run on a PC* with the operating system Microsoft Windows® XP Professional, Windows® Vista Business, Windows® 7 Professional or Windows® 8 Pro.

Technical features	
Test points	max. 1024 in the base unit (expandable with additional units up to 5120 test points)
Low voltage test DC	
Test voltage	max. 25 V (optional up to 40 V and 250 V)
Test current	max. 25 mA (at 40 V: 100 mA / at 250 V: 10 mA)
Threshold continuity test	1 Ohm – 1 kOhm
Threshold short-circuit test	20 kOhm – 1 MOhm (optional 10 MOhm / 100 MOhm)
Component test	Resistors: 1 Ohm – 1 MOhm (optional 10 MOhm / 100 MOhm) Capacitors: 10 nF – 20 mF (optional 100 pF – 10 nF / 10 pF – 10 nF) Diodes, Zener diodes, LEDs, optional: inductances, impedances, varistors (max. 1300 VDC)
High current test DC (optional)	
Test voltage	max. 22 V
Test current	max. 2 A (optional 10 A pulsed)
Threshold continuity test	0.5 Ohm – 1 kOhm
Options	Four-wire measurement from 1 mOhm or 100 µOhm / Recognition of short time interruptions ≥ 1 µs
High voltage test DC (optional)	
Test voltage	40 – 1500 V
Insulation test	500 kOhm – 2 GOhm (optional 2 GOhm – 10 GOhm)
Breakdown test	Fast recognition of voltage breakdowns (arc detection)
Dielectric strength test AC (optional)	
Test voltage	100 – 1050 V
Test current	max. 3 mA, intrinsically save according to EN 50191 (optional max. 5 mA)
Function test (optional)	
	The NT 600 can be expanded, so that the test of components and complex function procedures etc. can be carried out automatically. Therefore stimulus cards and stimulus sources are available beside powerful software tools and editors in NT Control.
General	
Interfaces	Extern interface with 3 opto-coupled inputs and 3 potential free outputs (expandable) 1 x serial interface RS232 Network Ethernet 10/100BaseT Pin number probe
Dimensions (W x H x D, approx.)	Base unit: 465 mm x 285 mm x 445 mm / additional unit 16/3: 465 mm x 150 mm x 445 mm
Scope of delivery base unit	NT 600, main cable, pin number probe, USB-stick with NT Control and documentation in PDF-format, mating connector and service connector for safety loop

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* PC not included in the standard scope of delivery.

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