



Image: NT 644 with options

NT 644 High Voltage Wiring Tester

- Easy operation via PC with control software NT Control
- Comfortable test program editors
- Extensive display possibilities and tools for fault location in the unit under test
- Extensive result reporting to file, to printer or via database connection*
- Up to **1024** test points
- Insulation test up to **2150 VDC**
- Dielectric strength test up to **1500 VAC**
- Continuity test, short circuit test and component test
- Remote maintenance
- Solid 19" housing
- Expandable by several measurement electronics
- The demands of the following test standards are complied with:
IPC/WHMA-A-620, MIL-STD-202G,
NASA-STD 8739.4A, MIL-HDBK-83575,
MIL-STD-1344A, MIL-C-45224D

* optional

TESTING

NT 644

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 644 takes place via network. NT Control is necessary for the operation of the NT 644 and part of the delivery. NT Control can be run on a PC* with the operating system Microsoft Windows® 7 Pro up to Windows® 10 Pro (country variants German or English).

Technical features NT 644	
Test points	max. 1024
Low voltage test DC	
Test voltage	max. 25 V (optional up to 250 V)
Test current	max. 25 mA (optional up to 2 A)
Threshold continuity test	1 Ohm – 1 kOhm (optional four-wire measurement from 1 mOhm)
Threshold short-circuit test	20 kOhm – 1 MOhm (optional up to 100 MOhm)
Component test	Resistors: 1 Ohm – 1 MOhm (optional up to 100 MOhm) Capacitors: 10 nF – 20 mF (optional from 10 pF) Diodes, Zener diodes, LEDs, suppressor diodes
Dielectric strength test AC	
Test voltage	100 – 1500 V
Test current	max. 2,1 mA _{eff.} , 3 mA _p , safety current limited according to EN 50191 (optional max. 4,2 mA _{eff.} , 6 mA _p)
Dielectric strength test DC	
Test voltage	40 – 2150 V
Test current	max. 3 mA, safety current limited according to EN 50191 (optional max. 6 mA)
Insulation test DC	
Test voltage	40 – 2150 V
Threshold	500 kOhm – 2 GOhm (optional up to 10 GOhm)
Function test (optional)	
	The NT 644 can be expanded, so that the test of relays, time relays, contactors, indication lamps, 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	
Power supply	100 – 240 VAC (50 – 60 Hz)
Interfaces	Extern interface with 3 opto-coupled inputs and 3 potential free outputs (expandable) Serial interfaces RS232 / USB 2.0 Network Pin number probe
Dimensions (W x H x D, approx.)	450 mm x 410 mm x 520 mm
Scope of delivery	NT 644, main cable, pin number probe, USB flash drive with NT Control and documentation in PDF format, mating connector and service connector for safety loop

* PC not in the scope of delivery