Image: NT 637 with options

NT 637

Modular 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 **512** test points
- Continuity test, short circuit test and component test
- High current test up to **2 ADC**
- High voltage test up to **1500 VDC**
- Dielectric strength test up to **1060 VAC** / **1500 VDC***
- Remote maintenance
- The NT 637 is the ideal tester for clear defined applications with up to 512 test points.
- Low start-up costs
- Easy expandable*:
  - Additional measurement electronics
  - LCR measurement bridge
  - Four-wire measurement from 1 mOhm
  - Insulation tests up to 10 GOhm
- Test table support
- 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

Options

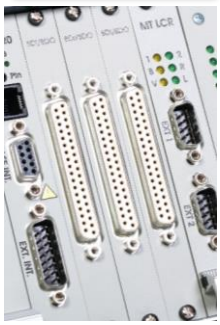
Measurement electronics expansion

to the base equipment MT20 up to 25 VDC / max. 25 mA and MT1500DC up to 1500 VDC / max. 2 A (high voltage insulation test / high current continuity test)

- Measurement electronics MT2000 for dielectric strength tests up to 1060 VAC / 1500 VDC, max. 3 mA or 6 mA
- 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

Function test

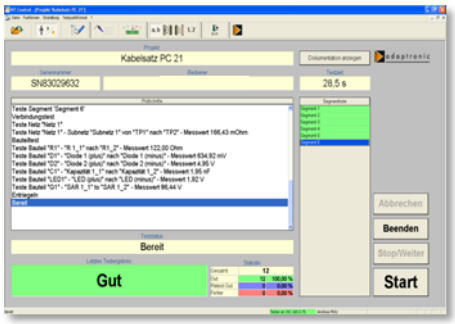
- Stimulus cards
- Stimulus sources
- Test and programming of I2C devices
- Test and programming of one-wire devices
- Total integration of camera systems for visual tests
- ProfiNet, LIN-, CAN-, Mod-Bus TCP, other bus systems on request



Elaborate number of interfaces

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

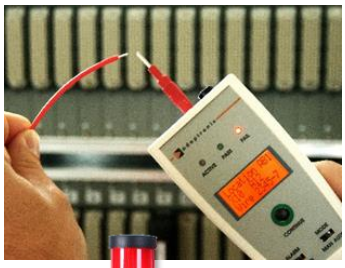
etc.



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.



Options

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 637
- 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 services

- Training for programming and testing with NT Control and NT 637
- Calibration service
- Application specific assistance

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 637 takes place via network. NT Control is necessary for the operation of the NT 637 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 637	
Test points	max. 512
Low voltage test DC	
Test voltage	max. 25 V
Test current	max. 25 mA
Threshold continuity test	1 Ohm – 1 kOhm
Threshold short-circuit test	20 kOhm – 1 MOhm (optional up to 5 MOhm)
Component test	Resistors: 1 Ohm – 1 MOhm (optional up to 5 MOhm) Capacitors: 10 nF – 20 mF (optional from 100 pF) Diodes, Zener diodes, LEDs, optional: inductances, impedances, varistors (max. 1300 VDC)
High current test DC	
Test voltage	max. 22 V
Test current	max. 2 A
Threshold continuity test	0.5 Ohm – 1 kOhm
Options	Four-wire measurement from 1 mOhm / Recognition of short time interruptions ≥ 1 µs
High voltage test DC	
Test voltage	40 – 1500 V
Insulation test	500 kOhm – 2 GOhm (optional up to 10 GOhm)
Breakdown test	Fast recognition of voltage breakdowns (arc detection)
Dielectric strength test AC/DC (optional)	
Test voltage / test current AC	100 – 1060 V / max. 3 mA, safety current limited according to EN 50191 (optional max. 6 mA)
Test voltage / test current DC	40 – 1500 V / max. 3 mA, safety current limited according to EN 50191 (optional max. 6 mA)
Function test (optional)	
	The NT 637 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	
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.)	345 mm x 275 mm x 395 mm
Scope of delivery base unit	NT 637, 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