Technical Data KT 410

Test points	
Type of test point cards	PEX04
Max. number of test point cards	16
Max. number of test points	2048 (with test point units expandable up to max. 16384 test points)
Test point interface	Female connector DIN 41612, 2 x 64-way
General	
Power supply	90 – 240 VAC (50 - 60 Hz)
Dimensions (W x H x D)	450 mm x 275 mm x 395 mm
Weight	approx. 11 kg
Environmental conditions	Temperature range: operation: +10 °C – +40 °C storage: +10 °C – +60 °C
	Relative humidity: 20 % – 70 %, non-condensing
Operating	Operating unit consisting of a high-contrast LC-display with 4 x 20 characters and 11 keys
	Operating languages: German, English, French, Italian, Spanish, Danish, Czech, Polish, Hungarian and Japanese (further languages on request)
Features	Self-learning of known good samples
	Programming with test program editor NT Control LT (PC software)
	Elaborate possibilities for the output and formatting of test results for printer and/or file
	Expanded label and report printing, also to file
	Test procedure control for the customization to special test tasks
	Division of the test procedure into single test steps (segments) e.g. for the test of switch positions or for segment specific parameters
	Visual check of LEDs
Diagnosis	Self-diagnosis for the measurement electronics and the test point cards
Interfaces	Network
	Serial interface (RS232) / 3 x USB 2.0 (1 x front, 2 x rear)
	3 x I/O, digital, 24 V, D-Sub 15-way
	Interface for warning lamp red-green, foot switch, test result lamp
	Pin number probe for test point identification
	Safety loop for the protection of the work place
	RJ12 interface for the connection of a temperature and humidity sensor
Specialties	Microsoft® Network Client and server software pre-installed and configured
Data storage	Flash Memory 2 GB internal and USB stick ≥ 2 GB
Scope of delivery	KT 410, main cable, pin number probe, USB flash drive with NT Control LT and documentation in PDF format

Options (Excerpt)	
	Test program selection via I/O card
	Checking and testing with barcode
	Correction value determination for R, C, L and Z
	Digital I/O interfaces 24 V, 8 or 16 I/Os, D-Sub 37-way
	Test system remote control via digital I/Os, serial interface or all common field-bus systems
	Temperature and humidity protocol, 0 - 100 % rF ±2 %, -40 - 80 °C ±0.3 K
	Adapter cables as well as I/O connection cables and I/O interface boards
	Interface for adaptronic test tables
	Handles / installation set 19"
	UNICAD converter for CAD- and Excel link data

Measurement electronics MT20

Low voltage test	
Test voltage	1 – 25 V; in steps of 1 V (±3 %, min. 0.2 V)
Test current	max. 25 mA
Threshold continuity test	1 Ohm – 1 kOhm (±5 %, min. 1 Ohm)
Threshold short-circuit test	20 kOhm – 1 MOhm (±5 %) Option: up to 5 MOhm (±20 % at test voltages >= 20 V)
Component test	
Resistors	1 Ohm – 1 MOhm (±5 %, min. 1 Ohm) Option: up to 5 MOhm (±20 % at test voltages >= 20 V)
Capacitors	10 nF – 20 mF (±10 %)
Diodes	Forward voltage: < 1.0 V Reverse voltage: max. 25 V
Zener diodes	Forward voltage: < 3.0 V Zener voltage: max. 20 V (±10 %)
LEDs	Forward-Voltage: < 4.0 V Reverse voltage: max. 25 V
Suppressor diode	Break-down voltage: 3 V – 23 V (±10 %)

Conditions for all tolerance statements: operating mode „Precise Mode“, earthbound operation, environmental conditions 15 – 35 °C / 20 – 60 % rel. humidity (non-condensing)

The statements for the component test refer to the test of single components, which are connected separately with test points.

Technical data and tolerances are subject to change depending on a specific ambient of the test object or application.