



9020 plus

# UNITEST EURO-EXPERT *plus* with Printer – 9020 UNITEST EURO-EXPERT *plus* without Printer – 9019

## Key Functions

- Loop impedance and prospective short circuit current measurement
- Line resistance and prospective short circuit current measurement
- Rotary field test
- RCD measurements (contact voltage, trip time, trip current - ramp method)
- RCD analysis for test of all RCD parameters
- Low Ohm measurement
- Insulation measurement up to 1000V (suitable for 690 V industrial mains systems)
- Earth resistance measurement
- Voltage and frequency measurement

## General Information

- Integrated memory for approx. 800 measurement values with two levels
- Standard, built-in RS-232 interface for transferring measurement data to the PC
- UNITEST software for recording test results is available as option
- Integrated socket test with contact electrode to enable the user to quickly establish incorrectly installed sockets and/or protective conductor failures
- Clear function selection via rotary switch
- Brief instructions contained on the inside case top of the instrument
- Mains-independent, supplied via battery
- Quick Reference Guides included

## Special Features

- Earth resistance measurement 2/3 and 4-pole
- Specific earth resistance measurement in compliance with the Wenner principle
- Available with standard built-in printer for immediate measurement data printing (model 9020)
- Integrated data logger (1500 measurement data) for recording and monitoring mains voltage
- Connection for Commander for remote control of the function start and save

## Technical data

Display	LCD, 3 1/2 digit; 1999 Digits
Measurement ranges	
Low Ohm	0.08...19.99 $\Omega$
Test current	>200 mA DC
Insulation resistance	0.08...1.999/19.99/199.9 M $\Omega$
Test voltage	250/500/1000 V DC
Earth resistance /	
Specific earth resistance	0.08...19.99/199.9/1999 $\Omega$
Test voltage	< 50 V/125 Hz
Measurement principle	2-, 3-, 4-pole with probes
Loop impedance	0.08...19.99/199.9/1999 $\Omega$
Line resistance	0.08...19.99/199.9/1999 $\Omega$
Prospective short circuit current	0.1 A...2.875 kA
Test current	approx. 23 A (at 230 V)
RCD Test nominal currents	10/30/100/300/500/1000 mA
RCD types/current	Standard, $\square$ /AC, $\curvearrowright$ , DC
Measurement functions	Contact voltage, Trip time without tripping, Tripping current test with ramp method RCD analysis function
Contact voltage	10...100 V
Earth resistance/display range ( $R_E = V_c/I_{AN}$ )	0.00 ... 19.99/199.9/1999 $\Omega$
RCD tripping time	0...500 ms
RCD tripping current	40...140% of $I_{AN}$ (in 10% steps)
Rotary field test	100...440 V/45...65 Hz
Voltage AC	0...440 V
Frequency	15.3...99.9/499 Hz
General	
Data memory	approx. 800 values
Data logger at voltage	1500 values
Interface	RS-232
Safety complying with	IEC 61010/EN 61010/DIN VDE 0411/IEC 61557/EN 61557/DIN VDE 0413
Measurement category	CAT III/300 V, CAT II/440 V
Pollution degree	2
Protection class	II
Protection degree	IP 40
Power supply	4 x 1.5 V, IEC LR20
Dimensions (W*H*D)	350 x 125 x 265 mm
Weight	approx. 3.8 kg (with batteries, w/o accessories)

## Printed Report:

UNITEST EURO-EXPERT PLUS

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9020E No. 12152 00100

Smith Electrics Ltd  
Oak Park 123  
12345 Any Place  
Phone +49 7684 / 80090  
Fax +49 7684 / 8009410

DATE: \_\_\_\_\_  
USER: \_\_\_\_\_  
PLACE: \_\_\_\_\_  
NOTES: \_\_\_\_\_

d: 001 C: 001

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Rins 1000V >200 MOhm  
Ri = .63 Ohm  
Ipsc = 365 A

A field of 5 lines at 24 characters is available for customer name, address, phone, etc. (text selected by customer, must be requested when order is placed as this information is programmed in by manufacturer). Programming the instrument at factory stages gives the unit a certain level of security as this text is printed on each report.

## Order Information:

Description	Cat. No.
UNITEST EURO-EXPERT <i>plus</i> with Printer	<b>9020</b>
UNITEST EURO-EXPERT <i>plus</i> without Printer	<b>9019</b>
UNITEST Software „es control 0100“ without Interface adapter	<b>1251</b>
UNITEST Software „es control complete package“ (all Modules) without Interface adapter	<b>1250</b>
UNITEST Software „es control professional 0100“ without Interface adapter	<b>1312</b>

## Order Information:

Description	Cat. No.
UNITEST Software „es control professional“ Complete package without Interface adapter	<b>1316</b>
Interface cable	<b>1282</b>
Profi Set Package	<b>1103</b>
Three Phase Adapter (contained in 1103)	<b>1118</b>
Carrying Case (empty) (contained in 1103)	<b>1158</b>
UNITEST Commander 1	<b>1218</b>
UNITEST Commander 2	<b>1223</b>
Programming of the Company adress	<b>DA0036</b>
Inked Ribbon for Printer	<b>1066</b>



## Scope of Supply:

- 1 pc UNITEST EURO-EXPERT *plus*
- 1 pc Test lead with Schuko Plug System
- 1 pc Test lead 3-pole
- 3 pc Crocodile Clamps
- 3 pc Test Probes
- 1 pc Carrying belt
- 1 pc Carrying Case for accessories
- 1 pc Inked Ribbon for Printer (Cat. No. 9020 only)
- 9 pc Quick Reference Guides
- 4 pc Batteries 1.5 V, IEC LR20
- 1 pc Instruction Manual