



UNIEST EURO-EXPERT *plus* with Printer – 9020

UNIEST 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
- UNIEST 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

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.

Printed Report:

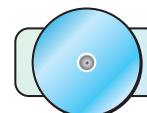
UNIEST EURO-EXPERT PLUS	
9020E No. 12152 00100	
Smith Electrics Ltd	
Oak Park 123	
12345 Any Place	
Phone +49 7684 / 80090	
Fax +49 7684 / 8009410	
DATE:	
USER:	
PLACE:	
NOTES:	
d: 001 C: 001	
Rins 1000V >200 MΩ	
Ri =	.63 Ohm
Ipse =	365 A

Scope of Supply:

- 1 pc UNIEST 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

Technical data

Display	LCD, 3½ digit; 1999 Digits
Measurement ranges	
Low Ohm	0.08...19.99 Ω
Test current	>200 mA DC
Insulation resistance	0.08...1.999/19.99/199.9 MΩ
Test voltage	250/500/1000 V DC
Earth resistance / Specific earth resistance	0.08...19.99/199.9/1999 Ω
Test voltage	< 50 V/125 Hz
Measurement principle	2-, 3-, 4-pole with probes
Loop impedance	0.08...19.99/199.9/1999 Ω
Line resistance	0.08...19.99/199.9/1999 Ω
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, \sim , 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	0.00...19.99/199.9/1999 Ω
$(R_e = V_e/I_{AN})$	
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)



A demo version of each software is available free of charge!

Order Information:

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

Order Information:

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