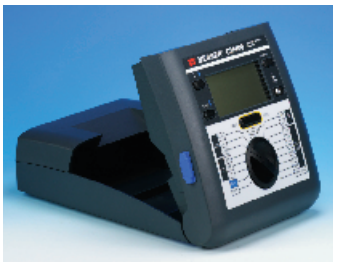
Multifunction Installation Tester
CM400, CM500



2 compact instruments that have all the functions required to fully test all types of wiring installations. The CM500 also contains advanced features intended to reduce testing and aid fault diagnostics on electrical installation and complies with the lasted UK, European and other international wiring and safety standards

H = 290, W = 223, D = 70

- Digital display with analogue arc graph display
- Test result storage CM400 450 99 locations, CM500 750 1000 locations
- No trip impedance test (RCD's rated 30mA or more) CM500
- RAMP RCD test measures the actual tripping current
- 3 insulation resistance at 250V, 500V, 1000V
- Continuity tests
- Loop impedance testing
- PSCC and PEFC indication displayed
- Earth electrode test
- Voltage and frequency measurement
- RS232 output for PC storage
- Direct serial printer driver for on site printing (CM500 only)
- Front panel tilts in for ease of use (CM400 only)
- Inbuilt storage compartment for test leads (CM400 only)
- Selectable backlight
- Protective test and carry case UK and Euro mains input lead (CM500 only)

T423

Mftrs. List No.	Order Code	Price Each 1+	3+	5+
CM400	**100-201**			
CM500	**184-482**			

Tester Multifunction Installation
UNILAP 100E

LEM

New

The UNILAP 100E is the complete installation testing solution in a single instrument. . During each test a number of parameters are measured, e.g. when testing RCDs in addition to RCD parameters such as triptime, touch voltage measurements of loop impedance and prospective short circuit current are also made, these values are easily accessed via the DISPLAY button.

Ergonomically designed, rugged, combined installation tester. Integrates all tests required for installation testing according to BS 7671, DIN VDE 0100, OVE-EN1, BS, SEV, NIV etc.

Special features of the UNILAP 100E:

- RCD-test: 10...500mA, variable range for IΔn (6...1000mA), non tripping test, ramp test current for trip current measurement, pulse sensitive RCD's, S and G-types, provides values: touch voltage, loop impedance/ resistance, trip time and trip current
- Insulation test: manual and automatic test. Automatic test tests between phase, neutral and earth conductors providing three results from one test
- Earth resistance: auto-range earth resistance measurement
- Loop impedance measurement with loop impedance and loop resistance and PSCC (prospective short circuit current)
- Protection to prevent unsafe use and ensure correct test lead connection
- Built in infrared interface for wireless A4 printout without additional software
- Built in memory for 255 data sets including reference to measured object, WINSAT 100 compatible

Protective conductor test: between 50V...300V AC
Mains voltage and frequency: 5...440V AC / 15,3...420Hz
FI - RCD – fault current protective measures:
Rated residual currents: IΔN 10, 30,100, 300, 500, 1000mA;
Or selective RCDs: 2x IΔN 10, 30,100mA; with or without tripping, tripping time and current, pulse sensitive RCD's
R_{ISO} – Insulation resistance:
Measuring voltage: 100/250/500V DC / In = 1mA; Range: 300Mohm; automatic or single test
R_{LOOP} (R_S)- mains internal or loop impedance:
Range: 200Ω, load resistance: 40...120Ω, max. 5mH inductance;
Test current: 1,4A...3,67A
I_K: short circuit current up to 40 Ka
Mains voltages: 55...440V / 45...65Hz
Earth electrode touch voltage according to SEV 3569:
Range: 0.5V...U_n; U_{S-PE} = R_A / R_S * U_n

RA – earth resistance: MEGGER
Extern supplied: 99...145;175...300V/15...17.5Hz; 45...65Hz
Range: 10 kOhm; max. PROBE resistance: 20kOhm;
The PROBE can also be connected to the neutral conductor.
R – Low resistance measurement:
Range: 0...999Ω, I_K>200mA, with automatic pole reversal
Compensation of test lead resistances up to 5Ω
Direction of phase rotation:
Mains: 20V... 440V; 45...65Hz
issues left or right handed rotation, voltage and frequency;
also for systems with 2 phases and one N-conductor.
Interface: Standard Infrared interface
Memory: 255 data sets incl. date, time and object ID
Safety: 300 V CAT III-IEC 61010-1, pollution degree 2,
Protection: IP40
Weight: 2,3 kg without accessories

T519

	Order Code	Price Each 1+	5+	10+
UNILAP 100E	**318-0657**			

High end multifunction Installation Tester
UNILAP 100XE

LEM

New

Ergonomically designed, rugged, combined installation tester. Integrates all tests required for installation testing according to BS 7671, DIN VDE 0100, ÖVE-EN1, BS, SEV, NIV etc.

Special features of the UNILAP 100XE:

- RCD-test: 10...500mA, variable range for IDn (6...1000mA), non tripping test, ramp test current for trip current measurement, pulse sensitive RCD's, S and G-types, provides values: touch voltage, loop impedance/ resistance, trip time and trip current
- Insulation test: manual and automatic test. Automatic test tests between phase, neutral and earth conductors providing three results from one test
- Advanced earth testing techniques
- Loop impedance measurement with loop impedance and loop resistance and PSCC (prospective short circuit current)
- Current, voltage and power measurements and associated variables.
- Protection to prevent unsafe use and ensure correct test lead connection
- Sensor input for measurement of virtually any electrical variable.
- Built in infrared interface for wireless A4 printout without additional software
- Built in memory for 255 data sets including reference to measured object, WINSAT 100 compatible

Protective conductor test: between 50V...300V AC
Mains voltage and frequency: 5...440V AC / 15,3...420Hz
FI - RCD – fault current protective measures:
Rated residual currents or selective RCDs: IdN 10, 30,100, 300, 500, 1000mA; 2x IdN 10, 30,100mA; with or without tripping, tripping time and current, pulse sensitive RCD's
RISO – Insulation resistance:
Measuring voltage: 100/250/500V DC / In = 1mA; Range: 300MOhm; automatic or single test
RLOOP (RS)- mains internal or loop impedance:
Range: 200W, load resistance: 40...120W, max. 5mH inductance;
Test current: 1,4A...3,67A
IK: short circuit current up to 40 Ka
Mains voltages: 55...440V / 45...65Hz
Earth electrode touch voltage according to SEV 3569:
Range: 0.5V...Un; US-PE = RA / RS * Un
RA – earth resistance:
Extern or intern supplied (mains independant); 3- or 4-pole measurement, specific or stakeless earth measurement with current clamps; soil resistivity measurement according to Wenner.
R – Low resistance measurement:
Range: 0...999Ω, IK>200mA, with automatic pole reversal
Compensation of test lead resistances up to 5Ω
Direction of phase rotation:
Mains: 20V... 440V; 45...65Hz
issues left or right handed rotation, voltage and frequency;
also for systems with 2 phases and one N-conductor.
SENSOR input:
for all probes with a voltage output; scaleable
Interface: Standard Infrared interface
Memory: 255 data sets incl. date, time and object ID
Safety: 300 V CAT III-IEC 61010-1, pollution degree 2,
Protection: IP40
Weight: 2,3 kg without accessories

T520

	Order Code	Price Each 1+	5+	10+
UNILAP 100XE	**318-0645**			