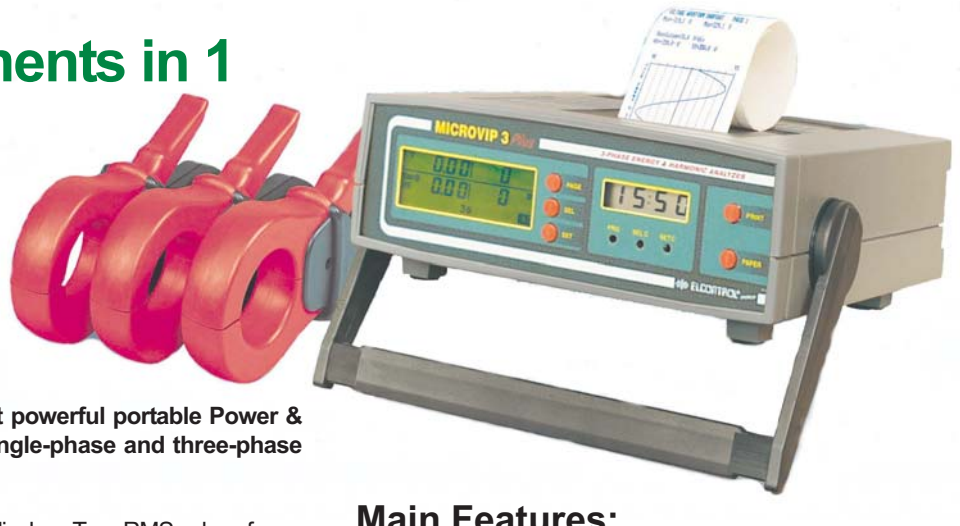
MICROVIP3 PLUS
Power&Harmonics Analyser

189 instruments in 1



Microvip3 Plus is a compact but powerful portable Power & Harmonics Analyser for both single-phase and three-phase systems.

The crisp high-contrast backlit LCD displays True-RMS values for up to 33 parameters, while the large 1MB on-board memory allows data storage over extended survey periods including waveform capture for current and voltage.
The on-board, programmable 42 columns graphic printer adds visualization of additional 156 parameters of data including V&I harmonics to 24th order with both DC component and displacement factor, and waveform/harmonic bar chart printout with manual or time-based printout.
The integrated high-speed RS232 serial port and the included PC software Microwin add further power to Microvip3 Plus, allowing full graphical display and analysis of all measurement data, both with real-time connection or by downloading the internal memory. Clear, graphical reports have never been easier to produce!

Main Features:

- AC and DC Measurements
- Built-in printer for measurements and graphs
- Integrated Harmonic Analysis up to the 24th order
- Integrated 1Mb Flash Memory
- Rs232 port for PC connection
- Windows software included
- Cogeneration (4-Quadrant) energy counters
- High accuracy (class 1,0)
- Mains or Battery operation

Main Technical Data:

- Power supply
  Mains: 230 ± 10% at 50 Hz or 60 Hz (115V version available)
  Internal: Rechargeable 940mAh Ni-Cd battery.
  Expected lifetime: 500 cycles
  Recharge time: 24h
  Autonomy: 7h

- Inputs
  Voltage: L1 - L2 - L3 - N: 600 Volt AC between phase and neutral @ 0÷ 600 Hz; or 600 Volt DC
  Input Impedance: 4MOhm

  Current: L1 - L2 - L3: 1 Volt AC at 0 ÷ 600 Hz
  Input Impedance: 10kOhm

- Display
  LCD with backlight.

- Accuracy Class 1.0 (EN 62053-21)

- Overload of voltage inputs: Max 625 Vrms - Peak voltage 825 Volt (cut-out tripped at 720 Vrms)

- Overload of current inputs: 5 times full scale value (cut-out tripped at limit values)
- Number of scales: 3 voltage scales, 3 current scales

- Automatic scale change

- Scale change response time: 1,2 sec.

- Display refresh rate: 1 sec.

- Internal Memory: 1Mb non-volatile Flash

- Instrument dimensions: 251 x 239 x 104 mm.

- Weight 2.900 Kg.

- Operative temperature range: -10°C +50°C

- Storage temperature range: -20°C +60°C

- Relative Humidity Range (RH%): 20% - 80%

- Condensation: not allowed

Purpose and Use:

The MICROVIP3 PLUS is intended for use by electrical power users who need to obtain an in-depth knowledge of their plants and systems. It is also extremely useful for plant engineers, installers, maintenance engineers and electricians in fault diagnosis and in the adjustment and repair of active electrical plant.

The MICROVIP3 PLUS allows to:

- Control loads and consumption;

- Reduce overloads and power loss;

- Check on the correct sizing of new plant entering service;

- Prevent overheating and insulation problems;

- Solve power factor correction problems;

- Identify and eliminate load peaks and associated power problems;

- Check 400 Hz naval plants and 600 Hz aeronautical plant;

- Check uninterruptable power supplies with AC inputs and DC outputs;

- Measure asymmetrical signals from PWM controllers.

PARAMETERS	TOT	L1	L2	L3	N
Phase-neutral Voltage [V]	•	•	•	•	
Phase-phase Voltage [V]		L1-2	L2-3	L3-1	
Current [A]	•	•	•	•	
Power Factor	•	•	•	•	
Frequency [Hz]		•			
Active Power [kW]	•	•	•	•	
Reactive Power [kvar]	•				
Apparent Power [kVA]	•				
Maximum Demand Active Power [kW]	•				
Maximum Demand Reactive Power [kvar]	•				
Maximum Demand Apparent Power [kVA]	•				
Positive (Imported) Active Energy [kWh]	•				
COG-negative (Expo) Active Energy [kWh]	•				
Positive Reactive Energy [kvarh]	•				
COG-negative Reactive Energy[kvarh]	•				
Apparent Energy [kvah]	•				
Current Thd%	•	•	•	•	
Voltage Thd%	•	•	•	•	

Standards and Regulations

Microvip3 Plus conforms to Directive 73/23/CEE (LVD) and 2004/108/CE (EMC). It has been designed with reference to EN 61010-1, EN 61326 including append. A1/A2/A3, EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-3/A1, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-5/A1, EN 61000-4-6, EN 61000-4-6/A1, EN 61000-4-8, EN 61000-4-8/A1, EN 61000-4-11, EN 61000-4-11/A1.

MICROVIP3 PLUS KIT

MICROVIP3 PLUS-KIT

KIT complete with:

n.1 MICROVIP3 PLUS
n.1 Microvip3 Plus carrying case
n.1 Set of voltage meas. leads with crocodile clips
n.1 Microwin software Windows
n.1 power supply cable
n.1 RS232 PC cable
n.1 Roll of printer paper (spare)
n.1 Ink ribbon (spare)
n.2 Fuses 5x20 80mA (spare)
n.1 Warranty certificate
n.1 Calibration certificate
n.1 User manual