



NanoVIP® ONE™ is an analyzer equipped with a wide range of measurements for monitoring both electricity consumption and power quality.

Particularly compact and light, it uses commercial AA batteries (rechargeable or not), has a considerable internal storage capacity (4Gb) and a graphic display. An economic analyzer but suitable for professional use.

COMPACT, LIGHT AND POWERFUL

- 128x128 graphic LCD that allows a wide display flexibility (multilingual menu, waveforms, histograms, diagrams, images, etc.)
- Dedicated NanoStudio PC software through which it is possible to perform advanced analyzes of stored data
- 1 voltage measurement channel (1 phase + neutral) up to 600V CAT III, with the possibility of measuring also the DC voltage, with an accuracy of ± 0.5% + FS error
- 1 current input with the possibility of measuring also the DC current, with the accuracy of ± 0.5% + FS err
- Capability to use flexible clamps of 3000/6000A or other sensors with full scale set by the user
- Can be used with AA commercial batteries (rechargeable or not) or with external power supply (optional) for prolonged campaigns.
- ✓ 10 alarms (generic, swells, dips and interruptions).
- 4Gb internal memory for measurements savings
- Multifunction keyboard
- USB output for download/upload measurements, setup and remote control
- Buzzer for errors and alarms
- Harmonic analysis up to the 25th degree
- Oscillo function for continuous capture of a channel (rms voltage or current)
- Start/Stop counters function for quick





| CASE: | |
|--|--|
| Dimensions | 175x80x32mm |
| Material | ABS with self-extinguishing V0 grade |
| Protection class | IP30 |
| Weight | 220 g (315g including batteries) |
| DISPLAY: | |
| Dimensions | 42x50mm |
| Туре | 128x128 STN Negative dot matrix graphic LCD |
| Backlight | White LED |
| Languages | English - Spanish - Italian - German - French |
| (EYPAD: | |
| Туре | Membrane keypad with 7 double-function keys |
| POWER SUPPLY: | |
| External power supply (Optional) | wall-plug switching; input 100-240VAC ±10% 47-63Hz with interchangeable plug; output 7.5VDC - 12V |
| Battery | 4 x AA commercial 1.5V Alcaline or rechargeable NiMh |
| Duration of the battery charge | Up to 24h (depending from AA battery type) |
| CONNACTABLE SYSTEMS: | |
| Systems frequencies | 50Hz – 60Hz |
| Single phase | ✓ |
| Two phase | • |
| Three-phase, 3-wires, balanced | ✓ |
| Three-phase, 3-wires, unbalanced | - |
| Three-phase, 4-wires, balanced | ✓ |
| Three-phase, 4-wires, unbalanced | - |
| CONNECTIONS: | |
| Voltages | Flexible cables L = 1.5m; 2.5mm ² - 36A; 1000V CAT III - 600V CAT IV with a 4mm, protected blade plue connector, crocodile clip with a 45mm opening (for sections up to 32mm) |
| Currents | Elcontrol Energy Net interchangeable amperometric sensors |
| Solar radiation | - |
| PT100 | - |
| Anemometer | - |
| Transducers | |
| UNCTIONS: | |
| | |
| Traditional electrical analisys | V, I, P, Q, S, F, PF, THD(V)%, THD(I)%, $\cos \varphi$, φ , peaks, minimums, maximums, averages, maximums, etc. |
| Traditional electrical analisys Three phase counters | |
| | demands, etc. |
| Three phase counters | demands, etc. kWh, kVArh, kVAh, both absorbed that generated |
| Three phase counters Cogeneration | demands, etc. kWh, kVArh, kVAh, both absorbed that generated ✓ |
| Three phase counters Cogeneration Waveforms | demands, etc. kWh, kVArh, kVAh, both absorbed that generated V & I |
| Three phase counters Cogeneration Waveforms Harmonics | demands, etc. kWh, kVArh, kVAh, both absorbed that generated ✓ V & I Values and histograms up to the 25 th order |
| Three phase counters Cogeneration Waveforms Harmonics Oscillo | demands, etc. kWh, kVArh, kVAh, both absorbed that generated ✓ V & I Values and histograms up to the 25 th order |
| Three phase counters Cogeneration Waveforms Harmonics Oscillo Sags | demands, etc. kWh, kVArh, kVAh, both absorbed that generated ✓ V & I Values and histograms up to the 25 th order |
| Three phase counters Cogeneration Waveforms Harmonics Oscillo Sags Transients | demands, etc. kWh, kVArh, kVAh, both absorbed that generated ✓ V & I Values and histograms up to the 25 th order |
| Three phase counters Cogeneration Waveforms Harmonics Oscillo Sags Transients Unbalance | demands, etc. kWh, kVArh, kVAh, both absorbed that generated ✓ V & I Values and histograms up to the 25 th order |
| Three phase counters Cogeneration Waveforms Harmonics Oscillo Sags Transients Unbalance Test EN 50160 | demands, etc. kWh, kVArh, kVAh, both absorbed that generated V V & I Values and histograms up to the 25 th order |
| Three phase counters Cogeneration Waveforms Harmonics Oscillo Sags Transients Unbalance Test EN 50160 Inrush current | demands, etc. kWh, kVArh, kVAh, both absorbed that generated V & I Values and histograms up to the 25 th order |
| Three phase counters Cogeneration Waveforms Harmonics Oscillo Sags Transients Unbalance Test EN 50160 Inrush current DC measures | demands, etc. kWh, kVArh, kVAh, both absorbed that generated V & I Values and histograms up to the 25 th order |
| Three phase counters Cogeneration Waveforms Harmonics Oscillo Sags Transients Unbalance Test EN 50160 Inrush current DC measures K factor | kWh, kVArh, kVAh, both absorbed that generated V & I Values and histograms up to the 25th order |







| Energy costs | - |
|-------------------------------------|---|
| IEC 61724 network parameters | - |
| Test EN 82.25 | - |
| OSU™ (One Shot UPS) | - |
| Measurament campaigns | Up to 68800 records |
| SUREMENTS: | |
| Sampling frequency | 128 samples per cycle (adaptive in 40Hz-70Hz range) |
| Data record rate | 1 sec. |
| Data storage rate | User selectable: 1", 5", 10", 30", 1', 5', 10', 15' |
| Type of connections available | Three-phase (3 or 4 leads balanced), single phase grid and DC |
| Type of grid which can be connected | Low and medium voltage (LV and MV) |
| VOLTAGE (TRMS) | |
| Channels | 1 channel |
| Input impedance | 4 Mohm |
| Scales | 2 |
| Direct measurement | Phase-phase: 7-690VAC 40-70Hz |
| | Phase-neutral: 5-400VAC 40-70Hz |
| Measurement with VT | Ratio: 1-60000 |
| | Maximum value which can be displayed: 20MV |
| Permanent overload | Phase-phase: 900VAC Phase-neutral: 600VAC |
| Sensitivity | 5VAC Phase-neutral, 7VAC Phase-phase, 10VDC |
| CURRENT (TRMS) | The Had head, 7 Me Had phase, 2010 |
| Channels | 1 channel |
| Input impedance | 10KOhm |
| Scales | 4 |
| Sales | Ratio: 1-60000 |
| Measurement with current clamps | Maximum value which can be displayed: 500KA |
| Sensitivity | 0,2% of F.S. |
| POWERS | |
| Single phase power | Values < 999 GW, Gvar, GVA |
| Total power | Values < 999 GW, Gvar, GVA |
| POWER COUNTERS | |
| Maximum value before reset | 9999999 kWh, kvarh, kVAh |
| ACCURACY | |
| RMS voltages: | |
| Scale 1 | ±0.5% + 0.2%FS ⁽²⁾ @ RMS V < 350VAC ⁽¹⁾ |
| Scale 2 | ±0.5% + 0.1%FS ⁽²⁾ @ RMS V > 350VAC ⁽¹⁾ |
| RMS currents: | |
| Scale 1 | ±0.5% + 0.2%FS ⁽²⁾ @ RMS I < 5% IN clamp ⁽¹⁾ |
| Scale 2 | ±0.5% + 0.1%FS ⁽²⁾ @ 5% < RMS I < 20% IN clamp ⁽¹⁾ |
| Scale 3 | ±0.5% + 0.1%FS ⁽²⁾ @ 20% < RMS I < 50% IN clamp ⁽¹⁾ |
| Scale 4 | ±0.5% + 0.1%FS ⁽²⁾ @ > 50% IN clamp ⁽¹⁾ |
| Power | ±1.0% + 0.2%FS ⁽²⁾ |
| Power Factor (PF) | ±0.5° |
| Frequency | ±0.01 Hz (40-70Hz) |
| Active power count (kW) | Class 1 |
| Reactive power count (kVar) | Class 2 |
| | |







| MRH™ | - |
|--|--|
| Server mode | - |
| Connectable MRH™ clients | - |
| Client mode | - |
| Zigbee® | - |
| Maximum distance outdoor | - |
| Maximum distance indoor | • |
| Mesh network | - |
| Wireless to PC | - |
| USB | to PC |
| DATA STORAGE: | wre - |
| | |
| Internal memory | 4Gb |
| External memory | • |
| OPERATING CONDITIONS: | |
| Operating temperature | -10 to +55 °C |
| Storage temperature | -20 to +85 °C |
| Relative humidity | Max 95% |
| Maximum altitude a.s.l. (600V CAT III) | 2000 m |
| EC COMPLIANCE: | |
| Directives | 93/68/EEC (Low Voltage Electrical Equipment); |
| | 89/336/EEC and 2004/108/EC (EMC - Electromagnetic Compatibility); |
| | 2006/95/EC - 72/23/EEC (LVD - Low Voltage Directive); |
| | 2002/95/EC (RoHS - Restriction of Hazardous Substances); |
| | 2002/96/EC and 2003/108/EC (WEEE - Waste Electrical and Electronic Equipment); |
| | IEC 61724 |
| REFERENCE STANDARDS: | |
| Safety | EN 61010-1 |
| Electromagnetic Compatibility (EMC) | EN 61326 |
| | EN 61326/A1 |
| | EN 61326/A2 |
| | EN 61326/A3 |
| Temperature | IEC 60068-2-1 (Operating temperature) |
| | IEC 60068-2-2 (Storing temperature) |
| Vibrations | IEC 60068-2-6 |
| | |
| Humidity | IEC 60068-2-30 (Humidity) |



Elmeasure India Private Limited

