



NANOVIP 2 - FOR 1 PH & BALANCED LOAD PROFESSIONAL POWER QUALITY ANALYSER



elcontrol
energy net

INTRODUCTION

NIFA ELECTRONICS Began outlining sound company framework, built on professional lines way back in 1991. NIFA ELECTRONICS has grown by leaps and bounds in exponential manner to become one of the major player in the field of POWER CONDITIONING, POWER MANAGEMENT & Allied Technical Services..

BRIEF ABOUT NANOVIP 2

NanoVIP2 is the new handheld 1 Ph Power Quality Energy Analyzer.. This equipment is able to combine a high level of performance with an extremely competitive price.

What makes it unique is its small size, however, the instrument has all the features normally found so far only in high-end products.

NanoVIP2 is therefore a measuring instrument for anyone who requires a product easy to handle, precise and easy to use. Is therefore aimed to users who want to acquire a thorough knowledge of thir plants, both Energy Managers, Fitters, Electricians, Contractor, for the activities of diagnosis and intervention, or who want to offer a consulting service concerning all matters related to the electricity.

NANOVIP2 MAKES IT POSSIBLE TO

- Control loads, consumption and costs;
- Test the correct dimensioning of new plants;
- Prevent risk to overheating and lack of insulation due to high harmonic content;
- Correctly resolve the problems of power factor correction;
- Identify and eliminate peak load of power to also reduce the electricity consumption;
- Monitor power and consumption in different time zones
- Monitor and evaluate the performance of UPS, with measures AC input and DC output (or vice versa);
- Measure signals including non-symmetrical PWM control of inverter;
- Identify the causes of issues resulting from a poor quality electrical (presence of harmonics, interruptions, overloads, voltage dips, phase unbalance voltage) which, in addition to causing potential production blocks, may damage or shorten the life cycle of of plant and machinery.

MAIN FEATURES OF NANOVIP2 ARE FUNCTIONS

- **Ability to connect and analyze various types of Electrical Systems**
 - Single Phase
 - Balanced Three-phase with or without neutral
- **Full traditional energy analysis** (V, I, P, Q, S, F, PF, THD%, actual values / minimum / maximum / average, energy meters and consumption generated for each phase and single phase).
- **Analysis of power quality parameters**
 - Harmonics of current and voltage for each phase and for the neutral,
 - Net interruption, overvoltage, sags,
 - Test according to EN 50160.
- **Advanced features**
 - Real measurement of the neutral current,
 - Display waveforms of currents and voltages,
 - Configuration and display of alarms and thresholds on selectable measurement,
 - Visualization of the time course of selectable parameters (trend),
 - Checking of the correct connection of the instrument to the system,
 - Possibility to measure long-term campaigns
 - Choice of language,
 - Customizable display, choosing which parameters to view according to a rotation in the lower part and turning it 90 ° in relation to the convenience of reading.

LOOK AT ITS PLUS POINT

- Equipped with a large graphic LCD with high efficiency, which allows the visualization of waveforms, graphics, etc.. and the use of a multilingual menu (English, Italian, Spanish, German, French). The white pixels on indigo provide exceptional visibility of the display.
- An elegant keyboard with 10-key dual function allows the user an easy and intuitive navigation menu.
- The instrument can be indifferently grasped through its ergonomic rubber, or else placed on a plane thanks to an integrated removable support, both to simplify the measurement operations on the field, that the use near to a PC.
- The availability of a microSD memory card for storing data and a USB port for communication with a PC, allows the creation of accurate measurement campaigns and the subsequent analysis of the data using the dedicated software supplied.
- A further innovation is the equipment of mini flexible current probes. This feature significantly improves the portability and handling of the instrument, reducing weight and size, without impairing the possibility of measurement.

ELECTRICAL		
Singlephase		YES
Threephase		
Input Voltage		1
Input Current		1
Safety		1600V CAT III
Power Supply		
Battery Package		4 x AA 2100mAh
Power supplier/ battery charger. ext.		100-240Vac / 50-60Hz
User Interface		
LCD	Type	Graphic LCD
	Dimention	68x68mm.
MISURE		
Traditional energy analisys (V, I, P, Q, S, F, PF, THD, cos, peak, minimum , max, medium, max. demand, ecc.)		YES
Counter for each phase		YES
Cogeneration		YES
Waveform		YES
Harmonics		Up to 50°
Histogramm Harmonics		YES
Dips		> 500ms
Swells		> 500ms
Interruptions		> 500ms
Fast Transient		YES
Trend		YES
Test EN 50160		YES
Inrush current		YES
DC Measure		YES
Allarms		YES
Voltage		1000Vac phase-neutral 1000Vdc
Current		Up to 3000A (with miniflex)
Frequency		45÷65 Hz
Tariffs band		YES
Energy costs		YES
Precision	voltage	± 0.25% + 0.05 F.S.
	Current	± 0.25% + 0.05 F.S. ± Σ pinza
	Power	± 0.5% + 0.05 F.S. ± Σ pinza
Measurement camign		YES
Alarmi Log		YES
COMMUNICATION		
USB		To PC
Data recording		
Internal memory		64kB
External memory		Micro SD
Kit composition		
Mini flexible clamp		1
Voltage cable		2
Crocodiles		2
Voltmetric tip		1
Cable /miniUSB-B		YES
External power supply		YES
CD software		YES
MicroSD card		4GB
Soft bag		YES

SIMILAR PRODUCT RANGE

- JUPITER PLUS - with all features of JUPITER and Web based communication software & Flicker Analysis
- JUPITER - Professional Power Quality Analyser for Transients, Dips, Swells & Microinterruptions
- ENERGY EXPLORER- Professional Power & Harmonics Analyser with RMS meter, Scope function, Phase vector display & Inrush current capture
- MICRO VIP 3 PLUS - for 3 phase unbalanced load with 189 instruments in one.
- NANO VIP PLUS - Hand Held Power and Harmonic Analyser for balance load.

PRODUCT RANGE

- Online UPS
- HT & LT Industrial AVR
- Servo Stabiliser
- Ultra Isolation Transformer
- Automatic Power Factor Control Panel
- Maximum Demand Control Panel
- Special Control Panels

SERVICES

- Power Quality Management
- Energy Audit Study

CUSTOMER SUPPORT

Centrally located in Ahmedabad, the customer support division remains consistent in progressively adding to its well-deserved reputation, spurred by a scientific spirit, entire team of engineers & technicians involved in the maintenance operations, meticulously work to keep customer demands satisfied. Our commitment to the customer goes beyond executing the best possible equipment. To help assure the perfect match of product & application, we offer and extensive direct support at all levels.

**We reserve the rights to change product specification without prior notice.*



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