



NANOVIP 3 - FOR 3PH & UNBALANCED 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 3

NanoVIP3 is the new handheld 3 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.

NanoVIP3 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.

NANOVIP3 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 NANOVIP3 ARE FUNCTIONS

Ability to connect and analyze various types of Electrical Systems

- Single Phase
- Unbalanced 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,
- Phase unbalance voltage,
- Net interruption, overvoltage, sags,
- Test according to EN 50160.

Advanced features

- Real measurement of the neutral current,
- Display waveforms of currents and voltages,
- Setting four tariff bands with display of relative costs,
- 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	YES
Input Voltage	4 (3 + N common + AUX)
Input Current	5 independent
Safety	1800V 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
	Dimension 68x68mm.
MISURE	
Traditional energy analysys (V, I, P, Q, S, F, PF, THD, cosφ, peak, minimum, max, medium, max. demand, ecc.)	YES
Threephase counter	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
Unbalance Voltage	YES
Test EN 50160	YES
Neutral current	YES
Inrush current	YES
DC Measure	YES
Alarms	YES
Voltage	1000Vac phase - neutral 700Vac phase - phase 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. ± ≤ pinza Power ±0.5% +0.05 F.S. ± ≤ pinza
Measurement campign	YES
Alarm 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
Hard case	YES

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

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.



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