POWER QUALITY ANALYZER NanoVip Cube

Voltage inputs	Number of inputs: 6 [3 Phase L1,L2,L3 + N) and 1 Phase (L+N)] Maximum input voltage: 1000V (Phase to Phase) and 600V (Phase to Neutral) Nominal voltage: range(P-N) 50V to 300V
Current inputs	Number of inputs: 5 [3 Phase (A1,A2,A3 +An) DC-coupled and 1 Phase (A)] Type: Clamp on CT and Flexi CT with Voltage output Range: 0.1A- 6000A AC and 0.5A-6000A DC (optional CT's)
Display modes	Waveform display: Available for Instantaneous Transient mode and Inrush Mode Captures all waveforms simultaneously Phasor: Shows real time phasor diagram Available in Normal and Unbalance mode Display update rate 5x per second (200ms/sample) Meter reading :V, I, P, Q, S, F, PF, THD(V)%, THD(I)%, cos, peaks, minimums, maximums, averages, max. demands, etc. Bar Graph: Available in Harmonics and Histogram representations Eventlist: Available in Dips and Swells, Logger and Monitor mode Trend Graph: Automatically records min, max and average values over time for all readings being displayed for the 3 phase and neutral simultaneously

Measurement Modes	Basic Power and Energy: V, I, P, Q, S, F, PF, THD(V)%, THD(I)%, cos, peaks, minimums, maximums, averages, max. demands, etc. Dips and swells : Captures up to 20 events Harmonics dc, 1 to 50: Harmonic Volts, THD Volt, Harmonic Amps, THD Amps, K Amps upto 50 in the form of Histogram Unbalance: Available Transients: overvoltage and overcurrent Inrush currents: Inrush Current, Inrush duration, Arms Mains signaling: Instantaneous voltage signaling and average voltage signaling Logger: Measures and records up to 62 parameters simultaneously on all 4 phases such that more than 1000 parameters can be available in 4 GB memory card
Accuracy, and Range	Volt/Amps/Hertz Voltage (Vrms): Scale 1 ±0.25% + 0.1%FS @ RMS V < 350VAC Scale 2: ±0.25% + 0.05%FS @ RMS V > 350VAC Current (Arms): Scale 1 ±0.25% + 0.1%FS @ RMS I < 5% IN Default Flexi CT Scale 2: ±0.25% + 0.05%FS @ 5% < RMS I < 20% IN Default Flexi CT Scale 3: ±0.25% + 0.05%FS @ 20% < RMS I < 50% IN Default Flexi CT Scale 4: ±0.25% + 0.05%FS Frequency (Hz): ±0.01 Hz (40-70Hz) Power and energy : Active power count (kW): Full Scale (FS) Class 0.5 Reactive power count (kVar): Full Scale (FS) Class 1 Power Factor (PF): Full Scale (FS) ±0.5°

Trend Recording Method	Volts/Amps/Hertz, Harmonics, Power Unbalance and Mains Signaling mode Sampling :128 samples per cycle (adaptive in 40Hz - 70Hz range), 16 samples per cycle at 400HZ Recording time: 1 s Memory: 64 KB Duration: User selectable1", 5", 30", 1', 5', 15' Resolution :User defined Cogeneration: Available Waveforms: V & I Harmonics :Values and histograms up to the 50th order
Wiring configurations	3PH+N-BL :balanced three-phase system with neutral 3PH-BL: balanced three-phase system without neutral 3PH :unbalanced three-phase system without neutral 3PH+N :unbalanced three-phase system with neutral 2 PH: two-phase system 1 PH: single-phase system
General specifications	Warranty 1Year Case Mounting Magnetic latch, Stand Material ABS with self-extinguishing V0 grade Protection class IP30 Drip and dust proof According to IEC 60529 Shock and vibration IEC 60068-2-27 and IEC 60068-2-6 Display Type FSTN Negative dot matrix graphic LCD Size 68*68 mm Resolution 128x128 pixels Contrast and brightness Adjustable Mechanical Length 116mm width 203mm Depth 53mm Weight 580 g Power Line power input 100-240VAC ±10% 47-63Hz with interchangeable plug Power adapter output voltage 7.5VDC - 12W Battery power 4xAA NiMh 2100mAh Battery operating time >24 Hrs Battery charging time Approx. 4 hrs Power saving Enabled
Standards	Power quality : EN 50160 Harmonics : EN 50160 Safety Compliance EN 61010-1 Temperature IEC 60068-2-2(Storing temperature) Humidity IEC 60068-2-30 Overload IEC 60947-1

	Vibrations IEC 60068-2-6 Max voltage on banana input 1000V Max voltage on current BNC input 1V
Communication Interface	Type USB Mini A Baud rate 115200
Accessories	Hardcase NanoVIP Cube battery pack NanoVIP Cube power supply unit Set of 4 voltage cables (red, yellow, blue, black) with integrated Alligator clips USB-A/mini USB-B cable 4GB MicroSD Scratch guard tempered glass (mounted) PC software Elnet PowerStudio CD Operating manual Rogowski Flexi cable 3000A (ID:400mm)

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