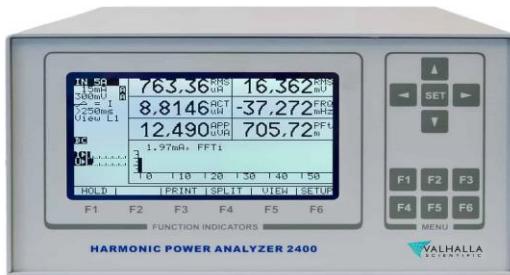


## Power Analyzer 2430-3HS



High-performance precision in both single and three-phases: a wattmeter, oscilloscope, and power spectrum analyzer in one. The 2400 power analyzer measures, computes and displays critical power variables so you can concentrate on more efficient & reliable testing. The 2400 Series provides simultaneous, precise voltage and current measurements while monitoring and displaying the power parameters you need in the format that best fits your application.

### Extraordinary Features

- The analyzer inputs are all galvanically isolated.
- Broad band DC-300kHz.
- Wide input range (0.3V – 1000V, 15mA – 40A).
- Exceptional common mode rejection for use in frequency inverter driven systems.
- The accuracy is 0.1% (0.05% versions are available).
- The bright LCD monitor displays up to 10 measured values in well legible 9mm high numbers.
- The Three-Phase Power Analyzer puts up to 32 measured values on the screen.

# Technical Specifications

Voltage	8 ranges: 0.3 V, 1 V, 3 V, 10 V, 30 V, 100 V, 300 V, 1000 V Frequency range Crest Factor Input Impedance Common Mode 50 Hz/100 kHz Standard accuracy 23°C; rms, mean, rectified mean; 0.3V typical 1 Hz-1 kHz ±(0.1 % rdg + 0.1 % range) DC, 1 kHz-10 kHz ±(0.2 % rdg + 0.2 % range) 10 kHz-100 kHz ±(0.3 % / range + 0.04 % /kHz rdg) 100 kHz-300 kHz ±(0.3 % / range + 0.04 % /kHz rdg), typical	DC, 0.1 Hz – 1 MHz 3:1 at 50 % full scale (fs) 1 MOhm 160 dB/100 dB Improved accuracy ±(0.05 % rdg + 0.07 % range)
Current	13 ranges: 1.5 mA, 5 mA, 15 mA, 50 mA, 150 mA, 500 mA, 1.5 A, 5 A; 1, 3, 10, 30, 100 A Frequency range Crest Factor Common Mode 50 Hz/100 kHz Standard accuracy 23°C; 1 A-, 5 A-, shunt input 30 A input 1 Hz-1 kHz ±(0.1 % rdg + 0.1 % rng) ±(0.1 % rdg + 0.1 % rng) DC, 1 kHz-10 kHz ±(0.2 % rdg + 0.2 % rng) rdg + 0.2 % rng) 10 kHz-100 kHz ±(0.3 % range + 0.04 %/kHz rdg) ±(0.3 % rng + 0.5 %/kHz rdg), typ 100 kHz-300 kHz ±(0.3 % range + 0.04 %/kHz rdg), typical	Max. 1 A, 5 A, 30 A, resp. DC, 0.1 Hz-300 kHz / 1 MHz 3:1 at 50 % full scale (fs) 160 dB/120 dB Lowest ranges 1.5 mA, 15 mA, 1 A: typical. Improved accuracy 1Hz-400 Hz ±(0.05 % rdg + 0.07 % range)
Power	104 ranges corresponding to the products V x A. Frequency range 45 Hz-65 Hz 1 Hz-1 kHz DC, 1 kHz-10 kHz 10 kHz-100 kHz (0.1 % rdg + 0.01 % range) Add accuracy percentage figures of current and voltage, +0.04 %/kHz PF	DC, 0.1 Hz-300 kHz PF= 0 to ±0.1 PF= 0 to ±1 PF= 0 to ±1 PF= 1
Frequency	0.1 Hz-400 kHz, V triggered; Accuracy ±0.1 %.	
Computed Values	Accuracy: Reactive Power, Var=±(VA2-W2)1/2, Apparent Power: VA=Arms Vrms; Power Factor: PF=W/VA; Crest Factor: CF=Ap/Arms, Vp/Vrms: Add accuracy percentage figures of values involved in computation.	
Integrator	Energy, Charge; Accuracy	Wh, Vah, Varh, Ah; Basic accuracy of integrated quantity.
Harmonic Analysis	Frequency range of fundamental 2.5 Hz-100 kHz Range of harmonic Accuracy, Harmonic current and voltage 2 Hz-1 kHz ±(0.1 % rdg + 0.1 % range) 1 kHz-10 kHz ±(0.5 % rdg + 0.5 % range) 10 kHz-100 kHz ±(0.7 % range + 0.1 %/kHz rdg), typical	1-99
Display	Blue liquid crystal graphic display with FL backlight	64×120 mm; 128 x 240 pixels
Power	AC, 50-400 Hz; Fuse: Power	85 V-240 V; 2 A, 15 VA
Dielectric Strength	Inputs to case or power supply Line input to case	2.5 kV/50 Hz/1 minute
Dimension	Input to Input	1.5 kV/50 Hz/ 1 minute 4 kV/50 Hz/1 minute
Options	H x W x D; Weight	150 x 235 x 320 mm; 4 kg
	IEEE-488-2, RS232, Centronics printer output	0±5 V, accuracy 0.2 % 0±5 V, accuracy 0.2 % 0±10 V accuracy 0.2 %
1.5mA-1A Inp/ Shunt Input	1 A input Hi against ILo Shunt Hi      Shunt Lo	1 A input: set scaling to 0.1 Shunt input: 60 mV corresponds to 1.0000 A