

VPA 124E

COMPLEX VIBRATION AND ELECTRICAL PARAMETERS ANALYZER



VPA124E-200903

VPA 124E is a signal analyzer for testing and diagnosis of motors, generators, turbines and other power rotating machines.

System components

- Data acquisition module VPA 124E
- Computing system, Windows OS
- Software Fastview
- Transducers and cables

Measurement inputs

- 7 absolute vibrations inputs IEPE type, $\pm 5V$, frequency range 0.5 Hz/3db-20 kHz
- 6 relative vibration inputs, $\pm 30V$, frequency range 0-20 kHz
- 1 tacho signal input, $\pm 30V$, frequency range 0-20 kHz
- 2 process parameter inputs, $\pm 30 V / \pm 20 mA$, frequency range 0-20 kHz, channel-to-channel isolated
- 1 three phase power analyzer, 3x300 Vrms, 3x5 Arms, frequency range 0-20 kHz, channel-to-channel isolated
- 2 voltage inputs $\pm 300 Vrms$, frequency range 0-20 kHz, channel-to-channel isolated
- 2 shunt current inputs, $\pm 100 mV$, frequency range 0-20 kHz, channel-to-channel isolated
- Features common to all inputs:
 - 24-bit resolution
 - Simultaneous sampling
 - Accuracy $\pm 0.2 \%$,
 - Programmable sample rate in the 2 kS/s/Ch – 50 kS/s/Ch range
 - Self-adaptive at acquisition frequency anti-aliasing filters, Alias-Free Bandwidth 45% of sampling frequency

Communication interface

- Ethernet

Power

- 100-240V, 50-60Hz

Transducers

- Absolute vibration transducers, accelerometer type, sensitivity 100 mV/g, frequency range 0.13 Hz-22 kHz/3 dB, 7 *pcs*.
- Relative vibration transducers, inductive proximity type, electronic driver, range 4 mm, sensitivity 4 mV/ μ m, frequency range 0-10 kHz, 6 *pcs*.
- Speed and phase transducer, laser type, reflective tape 10 m, 1 *pc*.
- Magnetic base for accelerometers, 7 *pcs*.
- Complete set of cables, various lengths (10, 25, 40 m standard)

Computer system

- Portable computer system, brand name, has Windows 10 or higher operating system installed and Fastview software.

Software

- Fastview Software License
- Windows Operating System license
- Fastview software installation CD

Documentation

- User manual in English

Carrying cases

- Acquisition module case
- Transducers case
- Cables case
- Laptop transport case