04
USB COMPACT ANALYZER

ROTATING PACK
YOUR COMPANION FOR
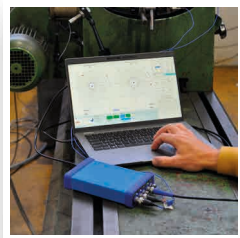## ROTATING MACHINE ANALYSIS

by **OROS**
MEASURING NOISE & VIBRATION

PLUG & PLAY - ULTRA PORTABLE - HIGH-END METROLOGY

Focused on portability, accuracy, and ease of use, the rotating machine analysis pack includes the latest USB compact analyzer 04, selected powerful software modules, and ready-to-use models carefully prepared with OROS know-how accumulated over 40 years.

Our goal is to make it your ideal companion to face the challenges of on-site testing. Even an inexperienced user can perform reliable measurements and analysis with high efficiency.
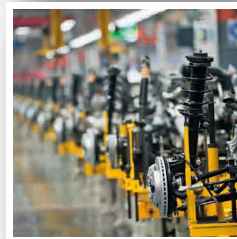
Rotor Balancing

FAT & Commissioning

Ideal for your applications

Test Bench Integration

End-of-line Production Test
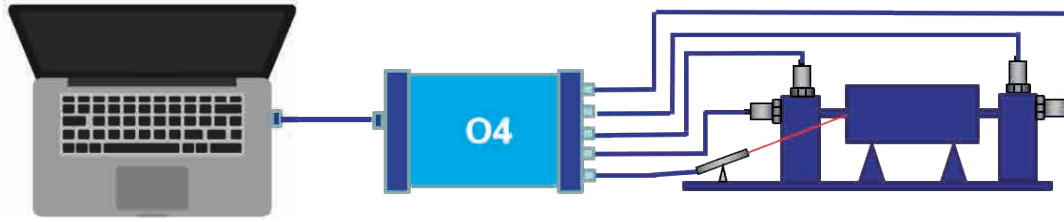
04 ROTATING PACK

USB Compact Analyzer

Plug-ins
Essential collection of analysis modules

Ready-to-use Models
Carefully designed by vibration experts

Main Specifications

Inputs	4 inputs, range ±100 mV to ±40 V		Output	1 generator
Coupling	AC/DC/IEPE/TEDS/FLOAT		Tachs/Triggers	2 tachs, oversampled 32.8MHZ, res. 30 ns, ±40 V
Sampling	2.048 kS/s to 256 kS/s, 24 bits ADC		PC Connection	USB Type C (1 cable for both data and power)
Accuracy	Phase ±0.02°, ampl. ±0.02 dB, dyn. 140 dB		FFT Analysis	101 to 25601 lines, adjustable band power tracking
Dimension	185x110x35 mm (7.2x4.3x1.3 inch)		Synch. Order Analysis	Real-time angular resampling, up to 3 shafts
Weight	534g (1.17 lbs)		Time Domain Analysis	Waveforms, real-time pk-pk, kurtosis, crest factor…

Main Ready-to-use Models

ISO10816_OVL_Vel	Overall levels complying with ISO 10816, ideal for monitoring machines according to the standard (levels in velocity)
Rot_Mach_Signature	Imbalance indicator (1X Bode plot), pk-pk levels, overall vibration, spectra, ideal for machine health evaluation
1X_Steady_State	1X magnitude & phase at steady state, ideal for rigid rotors balancing process
Transient_Bode_Plot	1X Bode plots for transient speeds, ideal for flexible rotors balancing process

Order Information

	O4-INST-4	O4 4 ch. USB compact analyzer - Instrument pack
	ORNVG-FULL-4-I	4 ch. NVGate full platform, incl. MON-I, WTF-I, REC-I - Instrument locked license
PK-O4-ROT	ORNV-FFT-4-I	4 ch. Narrow band FFT analysis - Instrument locked license
	ORNV-ORD-4-I	4 ch. Synchronous narrow band order analysis - Instrument locked license
	ORNV-TDA-4-I	4 ch. Time domain analysis - Instrument locked license

Recommended options

ORNVS-BAL-SDP-I	Single dual plane balancing module - Instrument locked license
ORNV-OCT-4-I	4 ch. 1/n Octave analysis - Instrument locked license
ORNV-TOOLKIT	Toolkit for NVGate external control & data collection
ORAC-TACM-001	OROS Optical tachometer kit powered by 3-Series analyzer or 100-240V mains + Magnetic base

Instruments - Software - Services

Range of portable teamwork instruments from 4 to 1000+ channels completed by a powerful and flexible range of applications with a comprehensive OROS software suite (acoustics, structural dynamics, rotating analysis).