

v3



ANALYSER

Quality assurance on the powertrain



End of question marks

Recognize differences
Precision with spectral modulation



Error Codes

Clear text for errors -
directly on the test bench



Targeted weighting of acoustics

**One test specimen, many ways -
we make acoustics objective**

**Master of the situation -
at all times**

**Maximum flexibility.
Highest quality**

eol-ANALYSER Platform

- Vibration measurement cards with 2 channels
- Up to 8 vibration sensors
- Fieldbus (EtherCAT / PROFINET / PROFIBUS / CAN (read only)/ Modbus TCP)
- 19" rack-mount unit
- 4 speed inputs (speedBOX)
- Calibration of the sensors/measuring section
- IEPE sensors / Microphones / Laser Vibrometers / Torsional Acceleration Sensors

Advantages of the eol-ANALYSER

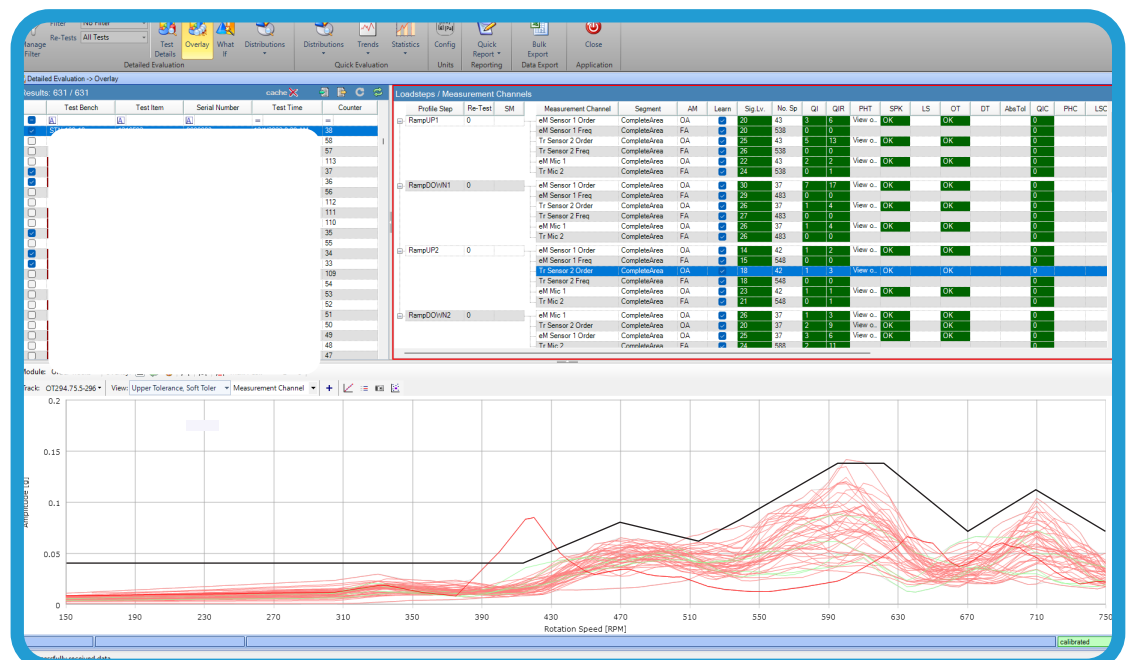
- Worldwide full access to server database
- Evaluation and settings of all eol-ANALYSERS via network
- Settings of limits for all eol-ANALYSERS simultaneously or individually
- Manual limits for acoustic issues
- Automatic limits for production problems
- Wide range of sensors (fixed , fed , contactless)
- Integration of the Reilhofer Order Calculator
- All types of drives (e-drive, combustion engine, gearbox, components)
- Easy integration into the test bench
- Various communication options (PROFIBUS/ CAN/ PROFINET/ EtherCAT/ModBus TCP / Digital / Analogue)
- Data security with raid system or server database
- Automatic data management (data retention for X years)

Features of the eol-ANALYSER

- Cost reduction through early production stability monitoring and avoidance of rejects
- Error detection via component calculation and error code
- Immediate diagnosis in clear text directly on the test bench
- “What if” analysis tool for resource-saving process optimization
- Combination of different analysis methods for maximum error detection
- Multilingual user interface for easy operation
- Raw data export for further analysis
- Customizable, weighted limits for a test item type
- Over 20 methods to provide a comprehensive picture

Highlights of eol-evaluation.NET

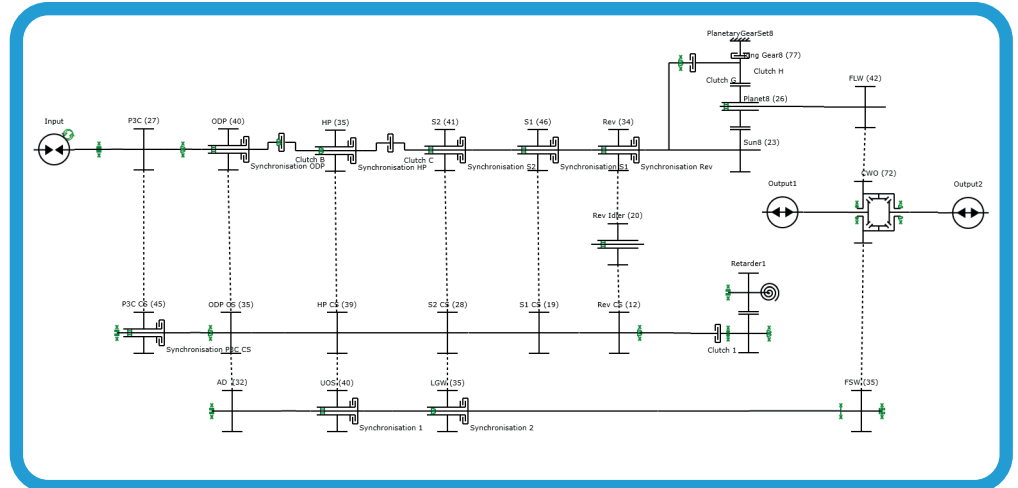
- Spectral modulation
- Error code distribution
- Amplitude track classification
- What if tool
- Statistics
- Order cloud
- Overlay
- Distributions



Overlay of a order track (gear mesh) with upper threshold

REILHOFER *order calculator*

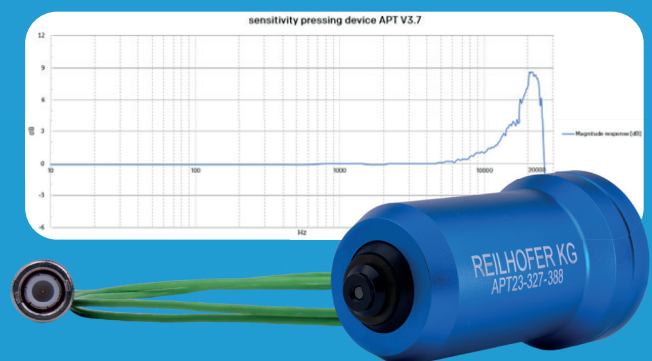
- Transmission (automatic / manual / axle drive)
- Internal combustion engine ICE
- Hybrids (complete drivetrain)
- All types of bearings
- Components
- e-drive



ROC model of the test specimen for the order calculation

Reilhofer pressing device sensor

- Measure directly on the test object
- Highest linearity in frequency response
- High durability / easy maintenance /calibratable
- Cost-effective



REILHOFER Acoustic Pressing Tool Sensor

Technical specifications

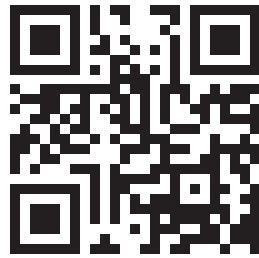
			19" housing	
General	Supply Voltage		100 - 240 VAC (50 Hz / 60 Hz)	
	Power Rating		max. 120 W	
	Dimensions		48 x 13.3 x 44 [cm]	
	Dimension incl. Cabling		48 x 13.3 x 49 [cm]	
	Weight		7.2 - 8.5 kg	
	Protection Type		IP20	
	Operating Temperature		0-55 °C / 32-131 °F	
Vibration Inputs	Analogia / 2 channels per card		max. 4 cards	
	Input Voltage		+/- 10V	
	Samplerate		max. 1 Msps	
	ADC-Resolution		16 Bit	
	Input Filter		adjustable low-pass filter /adjustable high-pass filter	
	Resolution		depending on selected gain	
	Parallel measurement		up to 8 sensors	
Speed Inputs	speedBOX with 4 galvanically isolated channels transfer TTL signal to eol-ANALYSER unit			
	Input Voltage:		±100 mV ... ±15 V TTL: 0 V / 5 V	
	Samplerate		40 MHz	
	ADC-Resolution		10 Bit	
	Lower Cutoff Frequency: Upper Cutoff Frequency:		10 Hz (AC coupling inactive) 1 MHz	
Output	Analog unit 1-8		Digital unit 1-16 galvanic isolated Outputs	
	Voltage	+/- 10V	Voltage -extern	5.5V - 28V
	I max total	100 mA	I max	350 mA
Interfaces	Ethernet (host communication)		100 Mbit/s	
	CAN (read only)		Max Baurate 1 Mbit/s CAN	
	PROFIBUS DP (optional)		Anybus Compact Com DPV1 Slave (AB6200)	
	Modbus TCP (optional)		Anybus TCP 2 Port Version (AB6223 - B)	
	EtherCAT (optional)		Hilscher extra Modul	
	PROFINET (optional)		Hilscher extra Modul	

eol
ANALYSER

19" mobile measuring rack



further information



Tel: +49 8131 592950
email: info@rhf.de
web: www.rhf.de

Hans-Böckler Str. 6 / 85221 Dachau / Germany