

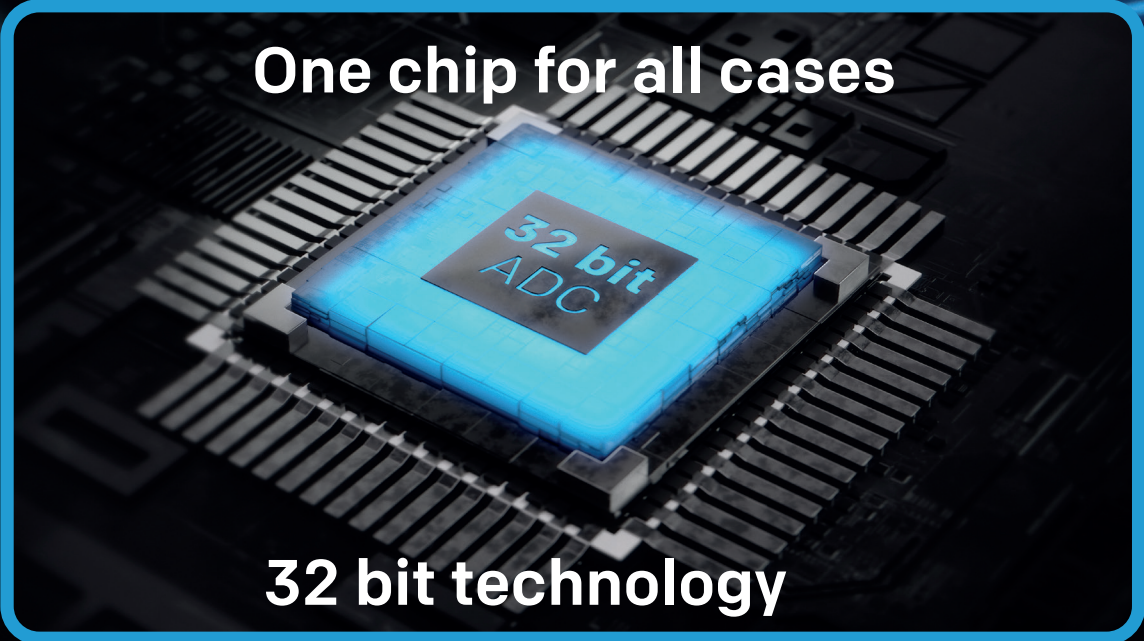
The background of the entire image is a close-up, artistic photograph of a mechanical component, likely a turbine or a large gear. The teeth of the gear are dark and metallic, with some areas reflecting light. A bright blue light streak, resembling a high-speed motion blur or a digital signal, curves across the bottom right corner of the image. The overall color palette is dark, with shades of blue and black, giving it a high-tech, industrial feel.

delton

ANALYSER

Early damage detection for the digital era

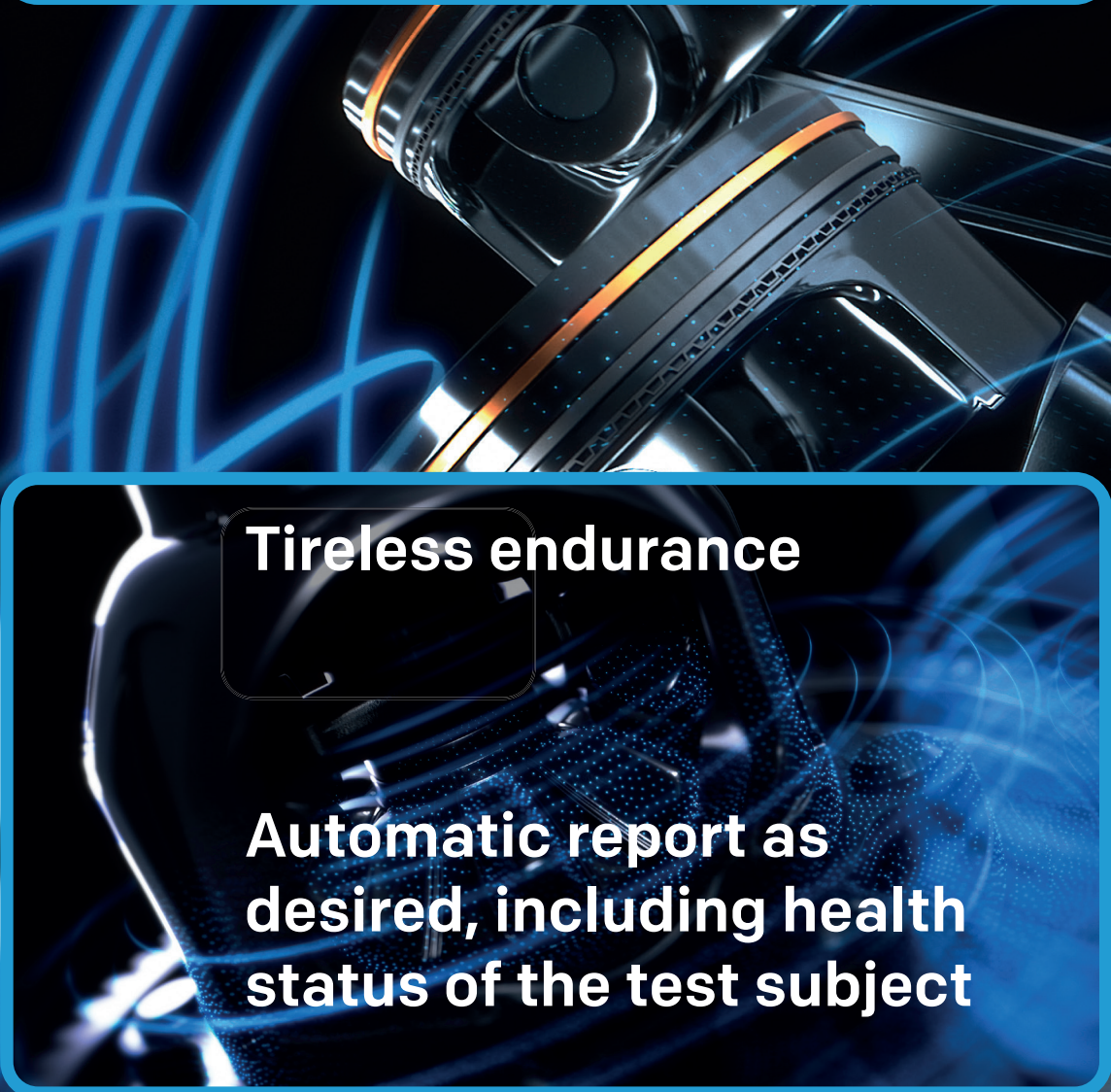
Always on



One chip for all cases

The image shows a close-up of a square integrated circuit (chip) mounted on a printed circuit board (PCB). The chip is blue and has the text "32 bit ADC" printed on it. The PCB is black with numerous gold-colored pins and traces. The background is dark with blue light effects.

32 bit technology



The image shows a robotic arm with a camera mounted on it. The arm is black and has orange and yellow accents. The camera is pointing towards the right. The background is dark with blue light effects.

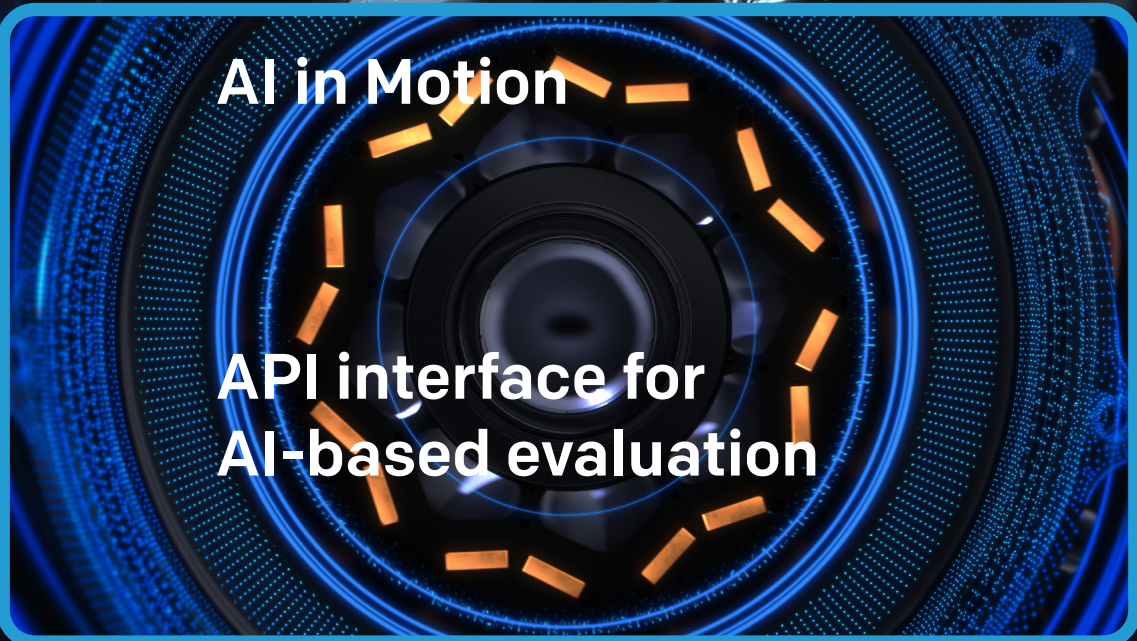
Tireless endurance

**Automatic report as
desired, including health
status of the test subject**



Instinctively correct

**Automatic load level
detection**



AI in Motion

**API interface for
AI-based evaluation**

Modular Analyser Platform MAP

- Vibration measurement cards with 3 channels
- Up to 12 vibration sensors
- Fieldbus cards (EtherCAT / PROFINET / PROFIBUS / CAN / CAN-FD / Modbus TCP)
- Two sizes (19" rack-mount and tabletop unit)
- 4 speed inputs (expandable to 8 inputs)
- Calibration of the sensors / measuring section
- Preparation of reading out datasheets of supported sensors
- Differential and ICP sensors
- Expansion of the measuring device, e.g. to eol-ANALYSER
- Upgradeable from noise-ANALYSER to delta-ANALYSER



ANALYSER CENTRAL

- License management
- Software updates
- Sensor database
- Hardware management

Sensor Database										
Name	Name	Type	Interface	Sensitivity	Frequency Range	Temperature Range	Tolerance	dB Reference		
	Default Sensor	Acceleration	IEPE	100.000 mV/g	1 Hz - 10 kHz	-50°C - 121°C	+/- 10%	142.00 dB	<-> 121.04	mm/s²
	PCB-J352C33	Acceleration	IEPE	100.000 mV/g	0.5 Hz - 10 kHz	-54°C - 93°C	+/- 5%	140.00 dB	<-> 10.00	mm/s²
	PCB-353B18	Acceleration	IEPE	10.000 mV/g	1 Hz - 10 kHz	-54°C - 121°C	+/- 10%	140.00 dB	<-> 10.00	mm/s²
	PCB-J352C34	Acceleration	IEPE	100.000 mV/g	0.5 Hz - 10 kHz	-54°C - 93°C	+/- 5%	140.00 dB	<-> 10.00	mm/s²
	PCB-356A33 (TRIAx)	Acceleration	IEPE	10.000 mV/g	y/z: 2 Hz - 10 kHz x: 2 Hz - 7	-54°C - 121°C	+/- 10%	140.00 dB	<-> 10.00	mm/s²
	B&K-4519-001	Acceleration	IEPE	100.000 mV/g	1 Hz - 20 kHz	-51°C - 100°C	+/- 10%	140.00 dB	<-> 10.00	mm/s²
	B&K-4518-001	Acceleration	IEPE	100.000 mV/g	1 Hz - 20 kHz	-51°C - 100°C	+/- 10%	140.00 dB	<-> 10.00	mm/s²
	RQ-50	SoundPressureLevel	IEPE	50.000 mV/Pa	20 Hz - 20 kHz	-10°C - 50°C	+/- 2dB	0.00 dB	<-> 20.00	µPa
	MI-17	SoundPressureLevel	IEPE	50.000 mV/Pa	20 Hz - 20 kHz	-10°C - 50°C	+/- 10%	0.00 dB	<-> 20.00	µPa
	IVS-500	Velocity	Voltage	4.000 mV/(mm/s)	1 Hz - 100 kHz	-50°C - 120°C	+/- 10%	140.00 dB	<-> 10.00	mm/s
	PCB-378B02 (TEDS)	SoundPressureLevel	IEPE	50.000 mV/Pa	7 Hz - 20 kHz	-40°C - 80°C	+/- 10%	0.00 dB	<-> 20.00	µPa
	ATI-2010i	AngularAcceleration	Voltage	2.070 mV/(rad/s²)	1 Hz - 6.5 kHz	-40°C - 140°C	+/- 12%	140.00 dB	<-> 10.00	rad/s²



- [illegible]



- Testrun Facts**

 - The Testrun has been started on 2/25/2025 12:36:59 PM for the first time and has a Monitoring Time of 14 Hours, 52 Minutes.
 - 2 Components have been monitored with 4 Sensors and 8 Resampling Units.
 - There are 1399 Alarms recorded in the Testlist. The last Alarm has been raised at 7/6/2025 11:45:01 AM by // CrashPreventor in // .
 - There are no additional Events recorded in the Testlist.

Loadstep Coverage

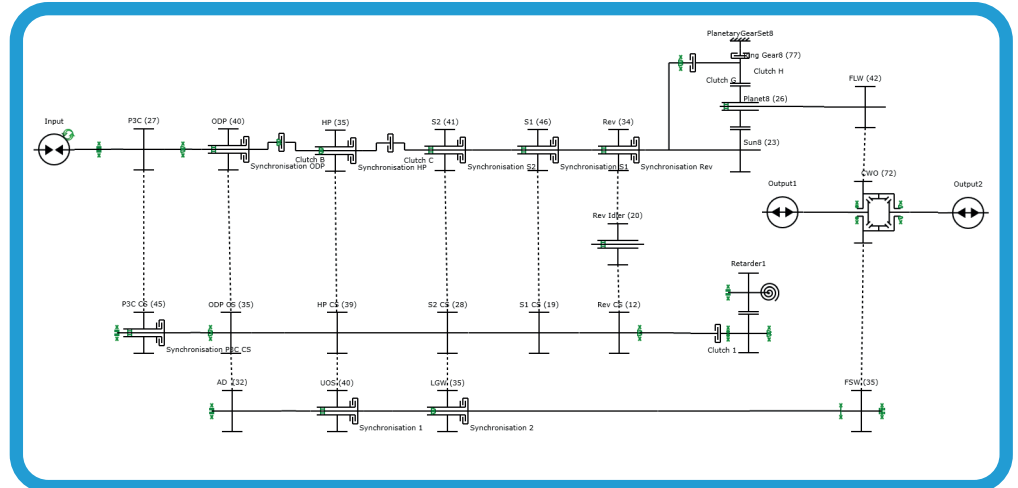
Component #1 / Default LS Set

Component #2 / New Loadstep Set #2

Diagnosis Methods

SM	Signal Monitoring	CP	CrashPreventor	TimeSignal Indicators	Karlsen	TimeSignal Classification	Spectrum Classification	Spectrum Reduction	Spectrum Classification	Line Monitoring	Spectral Monitoring
Component #1	Channel1	Order	Alarm	OK	OK	View	OK	OK	OK	OK	OK
	Frequency	View		View	View	View	View	View	Inactive		
	Channel2	Order	OK	OK	Inactive	OK	Inactive	Inactive	Inactive	Inactive	
	Frequency	OK	OK	Inactive	OK	Inactive	Inactive	Inactive			
Component #2	Channel3	Order	OK	OK	OK	Inactive	OK	Inactive	Inactive	Inactive	
	Frequency	OK	OK	Inactive	OK	Inactive	Inactive	Inactive			
	Channel4	Order	Alarm	OK	OK	Inactive	OK	Inactive	Inactive	Inactive	
	Frequency	OK	OK	Inactive	OK	Inactive	Inactive	Inactive			

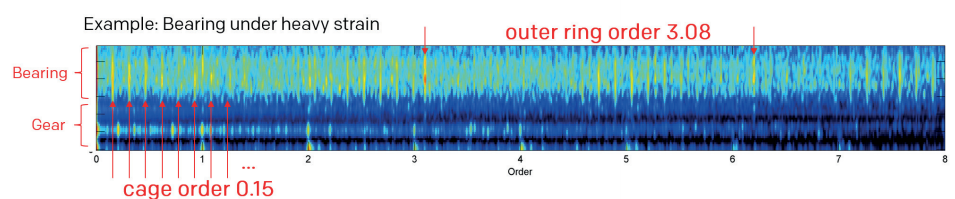
- Transmission (automatic / manual / axle drive)
- Internal combustion engine ICE
- Hybrids (complete drivetrain)
- All types of bearings
- Components
- E-drive



ROC model of the test specimen for the order calculation

Outlook for futures software modules

- End of line function for comparing the prototypes before and after the test run
- Spectral modulation for precise identification of errors
- Additional helpful functions and evaluations



Spectral Modulation with error identification

Technical specifications

		19" housing	Tabletop unit
General	Supply Voltage	100 - 240 VAC (50 Hz / 60 Hz)	
	Power Rating	max. 110 W	max. 73 W
	Dimensions	48 x 13.3 x 44 [cm]	25 x 15 x 42 [cm]
	Dimension incl. Cabling	48 x 13.3 x 49 [cm]	25 x 15 x 46 [cm]
	Weight	7.2 - 8.5 kg	4.3 kg
	Protection Type	IP20	IP20
	Operating Temperature	0 - 55 °C / 32 - 131 °F	0 - 55 °C / 32 - 131 °F
Vibration Inputs	Analogue / 3 channels per card	max. 4 cards	max. 3 cards
	Input Voltage	+/- 10V or 0 - 22V (IEPE)	
	Samplerate	max. 102.4 kSps	
	ADC-Resolution	32 Bit	
	Input Filter	adjustable low-pass filter /adjustable high-pass filter	
	Sensor Supply IEPE	selectable current 4 / 6 / 8 / 10 mA	
	Sensor Supply RHF	max. 100 mA current @ 5V	
	Plug detection	IEPE / RHF Interface	
	Parallel measurement	up to 12 channels	up to 9 channels
Speed Inputs	Speed card with 4 galvanically isolated channels / up to 8 with extension board		
	Input Voltage:	+/- 15 V	
	Samplerate	40 MSps	
	ADC-Resolution	12 Bit	
	Input options	low-pass filter (100 kHz or OFF) adjustable amplification switchable coupling (AC/DC)	
Alarm Relay	Number of outputs	2	
	Type	MOS- Relay	
	Maximum Voltage/ Current	48V / 100mA	
Interfaces	Ethernet (host communication)	1 Gbit/s	
	CAN / CAN FD	2 Channels galvanically isolated each Max Baurate 1 Mbit/s CAN / 8 Mbit/s CAN FD	
	PROFIBUS DP (optional)	Anybus ABCC-M40-DPV1 (AB6600-C)	
	Modbus TCP (optional)	Anybus ABCC_M40-EIT (AB6603-E)	
	EtherCAT (optional)	Anybus ABCC_M40_ECT (AB6607-E)	
	PROFINET (optional)	Anybus ABCC_M40_PIR (AB6605-E)	

delta
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Tabletop unit



19" mobile measuring rack

further information



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