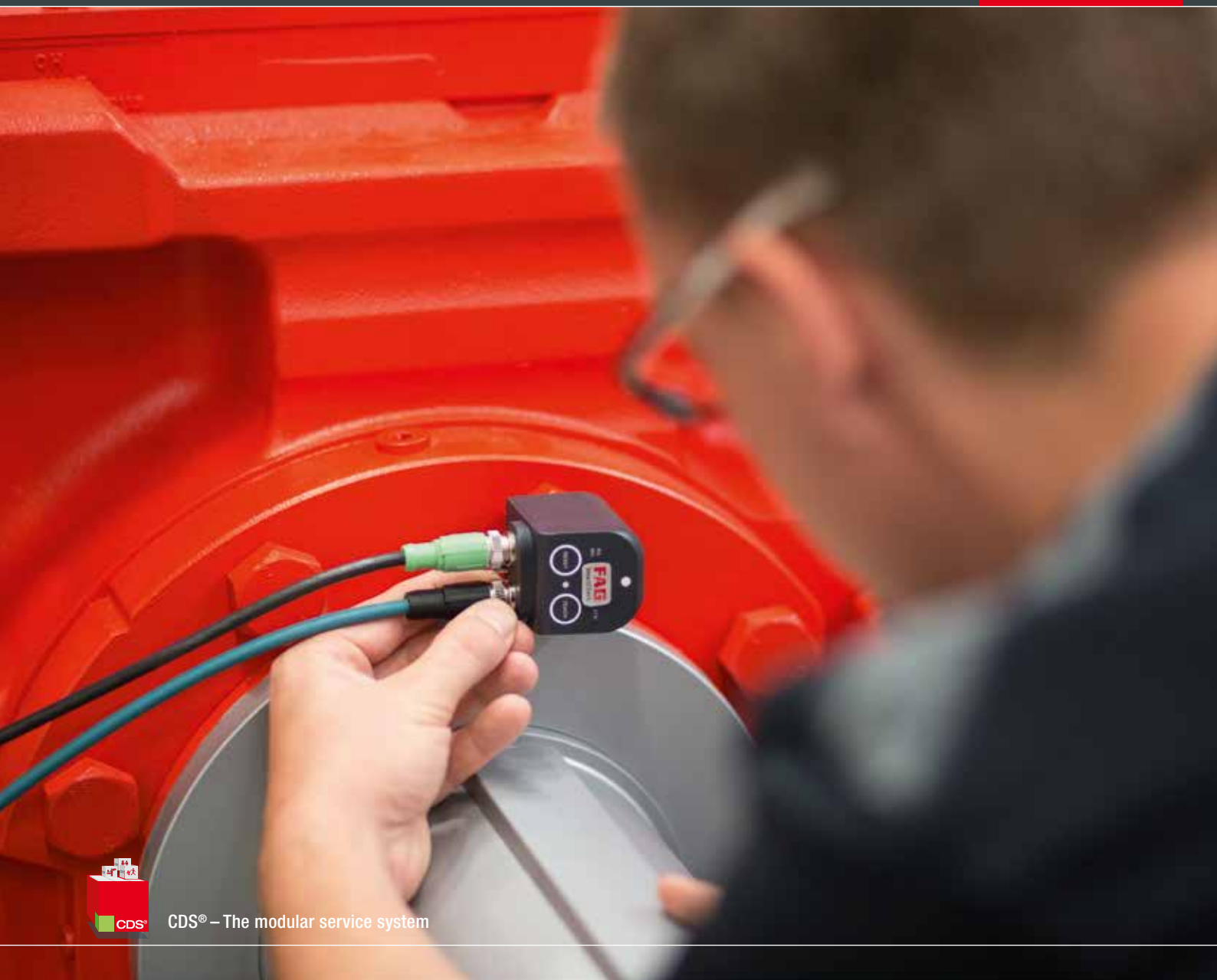


Condition Monitoring Service Vibration SmartCheck

Vibration analysis

SERVICE



Raise productivity

Our Vibration SmartCheck offers you a cost-effective and innovative service package for continuous and decentralized machine and process parameter monitoring. Take advantage of our service to get advice from our experts or to install the vibration sensor and implement the recommendations for action directly.

Use Vibration SmartCheck for predictive monitoring of your drive systems and boost your productivity with the experts from SEW-EURODRIVE.



Condition Monitoring Service is a component of the modular CDS® system from SEW-EURODRIVE.

Your benefits

- ✓ Reduced unplanned downtime
- ✓ Expert analysis of measured values
- ✓ Continuous monitoring of drive systems
- ✓ Intuitive operation
- ✓ Preconfigured system for easy startup
- ✓ Additional process parameters can be incorporated
- ✓ Integrated web application for real-time display of measurement data
- ✓ Compact size and robust housing of the measuring system
- ✓ Cost-effective solution

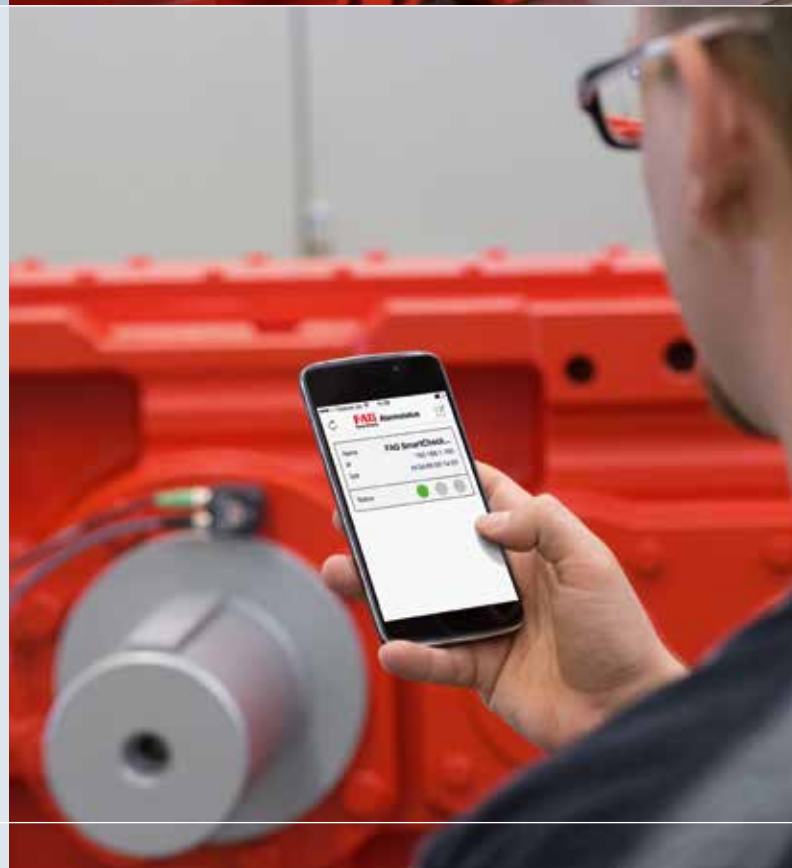


Vibration analysis can also be combined with other CDS® services



Monitoring options

- ✓ Rolling bearings
- ✓ Imbalance
- ✓ Impacts
- ✓ Gearing
- ✓ Temperature
- ✓ Additional process parameters



Everything from a single source

Benefit from our all-round Vibration SmartCheck service, ranging from advice, installation and startup to analysis of measurement data and preparation of diagnostics by certified vibration experts incl. recommendations for action.



Technical data

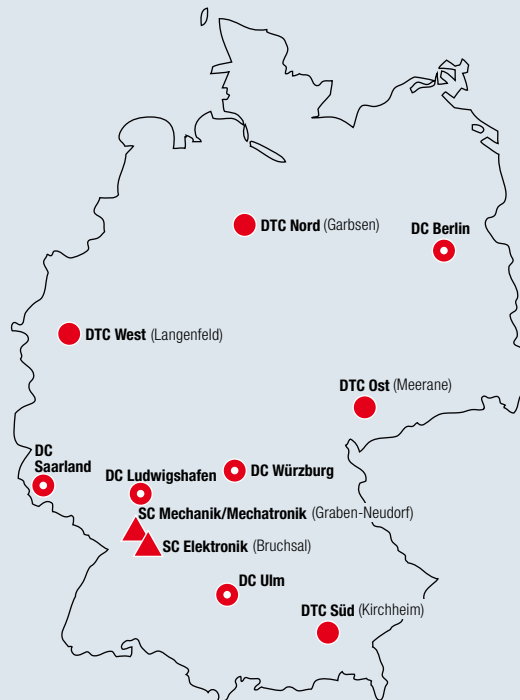
Internal sensor technology	
Vibration	Frequency range 0.8 Hz to 10 kHz
	Measuring range ± 50 g
	Acceleration sensor (piezoelectric acceleration sensor)
Ambient temperature	Measuring range -20°C to $+70^{\circ}\text{C}$
Measurement	
Measuring function	Acceleration
	Speed and travel through integration
	Temperature
	Process parameters (e.g. speed, load, pressure)
Diagnostic processes	Time signal, envelope, spectrum and trend analysis, speed and frequency tracking
Characteristic values (time and frequency ranges)	
Defined characteristic values	DIN/ISO 10816
Calculated characteristic values	RMS, frequency-selective RMS, constant component, peak, peak-to-peak, crest factor, Wellhausen count, carpet level, condition guard
	Other user-defined characteristic values are possible.
Memory	
Program and data	64 MB RAM, 128 MB flash
Inputs and outputs	
Inputs	2 analog inputs (0-10 V / 0-24 V / 0-20 mA / 3-20 mA), frequency range 0-500 Hz, 12 bit 1 digital input (0-30 V, 0.1 Hz - 50 kHz)
Outputs	1 analog output (0-10 V / 0-20 mA / 4-20 mA), 12 bit 1 switching output (open collector, max. 1 A, 28 V) Optional galvanic isolation between inputs and outputs
Interfaces	
Control elements	2 capacitive buttons (learning mode, alarm reset, restart, factory settings)
Display elements	1 LED for status and alarm display
	1 LED to confirm buttons
	2 LEDs for communication display
Communication	Ethernet 100 Mb/s RS485 (not yet supported)
Electrical connections	3 polarity-reversal-protected M12 plug connectors for supply, RS485, inputs/outputs and Ethernet
Other	
Housing	Glass-fiber-reinforced plastic
Fastening	Hexagon socket head screw M6 x 45
	Mounting surface on the machine: 25 mm \varnothing
Current consumption	< 200 mA at 24 V
Operating temperature	-20°C to $+70^{\circ}\text{C}$
Voltage supply	11-32 VDC or Power over Ethernet (PoE) based on 802.3af mode A
Size	44 mm x 57 mm x 55 mm
Weight	Approx. 210 g
Degree of protection	IP67
Operating system	Embedded Linux
Software	FAG SmartWeb, FAG SmartUtility Light or optionally FAG SmartUtility Languages: English, German, Chinese, Spanish, French



24h Service Hotline

0800 SEWHELP

0800 7394357



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- Drive Center (DC)
- ▲ Service Competence Center (SC)

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