

AIQ CORE



PIN ASSIGNMENT (DEVICE SIDE)

1	Analog output (4 ... 20 mA)	Temperature
2	+24 V DC	
3	Analog output (4 ... 20 mA)	vRMS
4	Digital output (24 V 0.2 A)	Gearbox status
5	Speedmeter signal (24 V HTL)	Speed
6	Digital output (24 V 0.2 A)	Oil temp. warning
7	GND (ground)	
8	Custom input	



ANALYTICS AND FUNCTIONS

- Continuous real-time monitoring of gearboxes
- Individually configured for each use case
- Monitors wear, overheating, lubrication problems, imbalance, bearing and gear damage
- Over 80 powerful, integrated analysis functions
- Self-learning algorithms
- Customized integration options for simple data use
- User interface in the AIQ App and AIQ Web Portal
- Alarm system based on measurement data and operating parameters
- Clear recommendations for efficient maintenance planning

GENERAL

- IP67 protection class
- Certificates: CE/EAC
- Operating voltage 24 V DC
- Dimensions 70 × 70 × 35 mm



TEMPERATURE MEASUREMENT

- Oil sump temperature measurement
- PT-1000-sensor
- Analog output pin 1 (4 ... 20 mA)
- Temperature range: -40°C ... +135°C



SPEED MEASUREMENT

- Gear wheel as pulse generator
- Hall sensor
- Digital output pin 5 (pulse signal)
- Switching frequency: 1 ... 15,000 Hz



VIBRATION MEASUREMENT

- 3-axis vibration sensor
- vRMS (DIN 10816-3)
- Frequency range: 1 Hz ... 6.3 kHz
- Analog output pin 3 (4 ... 20 mA)
- Measurement range: 0 ... 25 mm/s



USE CASES AND CONNECTIVITY



Direct connection to control system



Bluetooth connection to smartphone with AIQ App



Extended functions in the AIQ Web Portal



TO THE APP

