DATA SHEET

AIQ CORE

with a SIM card



FLENDER

GENERAL

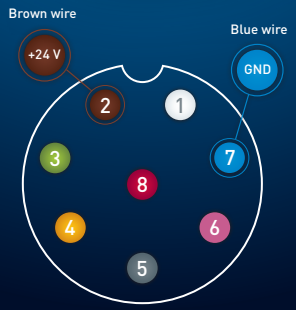
- IP67 protection class
- Certificates: CE/EAC
- Operating voltage 24 V DC
- Dimensions 70 × 70 × 35 mm

TEMPERATURE MEASUREMENT

- Oil sump temperature measurement
- PT-1000-sensor
- Temperature range: –40°C ... +135°C

PIN ASSIGNMENT *(DEVICE SIDE)*

1	Analog output (4 ... 20 mA)	(not connected)
2	+24 V DC	
3	Ethernet TXN	
4	Ethernet TXP	
5	Ethernet RXN	
6	Ethernet RXP	
7	GND (ground)	
8	Digital Output	Speed Pulse



SPEED MEASUREMENT

- Gear wheel as pulse generator
- Hall sensor
- Digital output pin 8 (pulse signal)
- Switching frequency: 1 ... 15,000 Hz

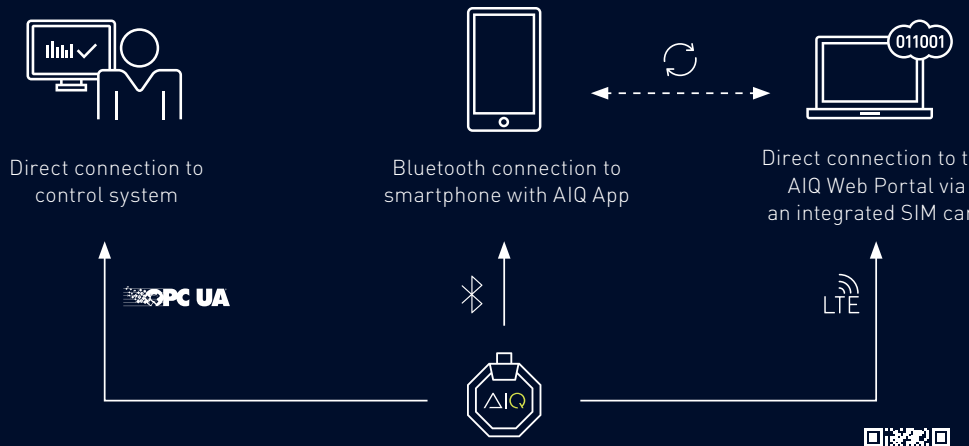
VIBRATION MEASUREMENT

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

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
- Direct connectivity to the AIQ Web Portal via LTE using an integrated SIM card
- User interface in the AIQ App and AIQ Web Portal
- Output of all values (alarms, KPIs, etc.) to the control system via OPC UA
- Clear recommendations for efficient maintenance planning

USE CASES AND CONNECTIVITY



Direct connection to control system

Bluetooth connection to smartphone with AIQ App

Direct connection to the AIQ Web Portal via an integrated SIM card

TO THE APP