AIQ CORE **OPC UA OPTION** DATA SHEET



PIN ASSIGNMENT (DEVICE SIDE) 1 Analog output (4 ... 20 mA) (not connected) Brown wire 2 +24 V DC +24 V 3 Ethernet TXN 4 Ethernet TXP 5 Ethernet RXN 6 Ethernet RXP 7 GND (ground) 8 Digital output Speed pulse

ANALYTICS AND FUNCTIONS

- Calculation of remaining oil life
- Display of operating temperature and start temperature
- Alarm (oil status pin 6, total alarm pin 4, digital)
- Vibration KPIs (aRMS, vRMS ...)
- Frequency-selective analysis (online)
- Operating state (e.g. operating hours/start-up counter)
- Output of all values (alarms, KPIs...) via OPC UA to PLC
- Easy replacement of the AIQ Core head

GENERAL



- IP67 protection class
- CE/EAC certification
- Ethernet (option for online mode)
- Bluetooth (option for local mode)
- Operating voltage 24 V DC
- Dimensions 70 × 70 × 35 mm

TEMPERATURE MEASUREMENT



- PT-1000 oil sump temperature measurement
- Connection to PLC
- Temperature range: -40° C ... +135° C

SPEED MEASUREMENT



- Hall sensor detects the teeth of one of the gears
- Connection to PLC
- Digital output pin 8 / pulse signal
- High resolution

VIBRATION MEASUREMENT



- 3-axis vibration sensor included
- Connection to PLC
- Measurement range: 1 Hz ... 6.3 kHz

USE CASES AND CONNECTIVITY

Offline mode: signal connection via OPC UA to customer control (PLC) Local mode: Bluetooth connection to the smartphone with AIQ app Manual data upload Online mode: connection to

the AIQ Cloud

OPC UA SERVER

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AIQ Core Torque

Alarm

ConfigData

☐ KPIs

Maintenance

Server(Standard)

☐ Signals

Server

Types

☐ Views