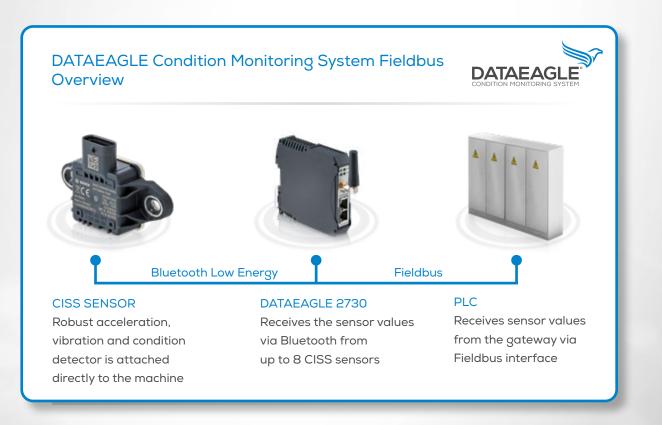# DATAEAGLE Condition Monitoring System Fieldbus

IoT ready-to-use: Condition Monitoring of Motors and Machines

The DATAEAGLE Condition Monitoring System Fieldbus is optimally suited for condition monitoring of e.g. motors and machines in industrial environments. The aim is to implement Remote Condition Monitoring in the sense of Industry 4.0 simply, locally and quickly.

The system consists of a small multisensor for harsh industrial environments (CISS) and a worldwide usable IoT-Gateway (DATAEAGLE 2730) with integrated fieldbus interface for controllers of different manufacturers.

The robust CISS sensor from Bosch can be mounted directly on the motor or machine and transmits the data via Bluetooth Low Energy to the central IoT Gateway DATAEAGLE 2730, which can receive values from up to 8 CISS sensors simultaneously. The values are pre-processed and transmitted to the control system. From there the sensor values can be processed directly at the process.

DATAEAGLE Condition Monitoring System Fieldbus Overview

DATAEAGLE
CONDITION MONITORING SYSTEM

Bluetooth Low Energy   Fieldbus

CISS SENSOR
Robust acceleration, vibration and condition detector is attached directly to the machine

DATAEAGLE 2730
Receives the sensor values via Bluetooth from up to 8 CISS sensors

PLC
Receives sensor values from the gateway via Fieldbus interface

Use Cases for Condition Monitoring

Local process monitoring with the DATAEAGLE CMS Fieldbus

The DATAEAGLE Condition Monitoring System Fieldbus can be used as original equipment as well as retrofit solution for existing plants. The following inertial and environmental sensors are used: Acceleration, gyroscope, magnetometer, digital light, pressure, microphone, temperature and humidity. The values are transmitted from the sensor to the control unit in seconds.

PRESSURE

VIBRATION

DATAEAGLE IN THE CONTROL CABINET

HUMIDITY

DATAEAGLE Condition Monitoring System Fieldbus

IoT ready-to-use. Condition monitoring directly on the process in the control unit

- ✓ Ready-to-use system for condition monitoring e.g. of motors, pumps and machines
- ✓ Industrial Gateway: Space-saving, DIN rail mounting, IP 20 and 24V DC
- ✓ Fieldbus interface: PROFIBUS, PROFINET, CAN / CANopen, ETHERNET/IP, EtherCAT, Modbus TCP, POWERLINK, sercos, VARAN
- ✓ Ready-to-use project for the plc

| acceleration | gyroscope | pressure | digital light | humidity | temperature | magnetometer | microphone |