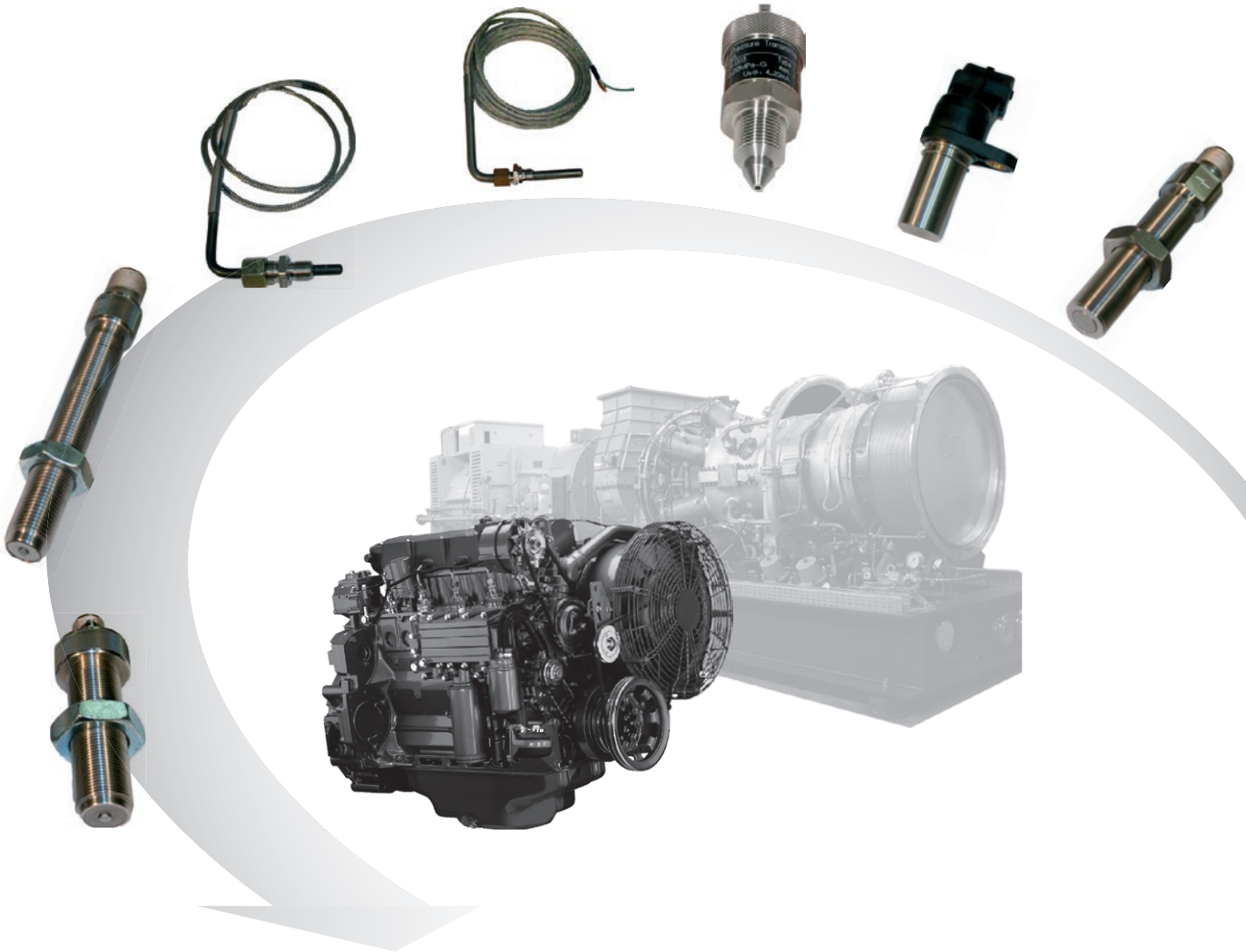


SENSORS

For Digital Control Systems



- ✓ Temperature sensors
- ✓ Pressure sensors
- ✓ Speed sensors



Engine & Turbine Management

SENSORS

HEINZMANN offers complete solutions for the monitoring and control of engines and turbines and it is therefore only natural that the company also offers a complete range of high-quality sensors. Sensors are fully customisable and can be configured to match any HEINZMANN or customer product specification.

HEINZMANN sets very high standards for its sensors to ensure that they comply with the most stringent industrial standards and customer specifications.

This ensures that our sensors are suitable for applications even in the most severe environments. Some of our sensors are certified for use in special applications.

HEINZMANN operates a policy of continuous improvement and systematic product development. We are continuously improving existing systems and developing new products and sensor solutions. That is why we would like to hear from customers who have an application not covered by our current sensor range. HEINZMANN offers experience and expertise and is glad to work in cooperation with customers in the development of new sensor types including those for use in difficult conditions.

Features

- ✓ **Reliable, high-precision sensing**
- ✓ **Wide range of measuring applications**
- ✓ **Designed for HEINZMANN products**
- ✓ **Strong, compact construction**
- ✓ **Long life cycle**
- ✓ **Maintenance free**

Sensor types

HEINZMANN sensors are classified by application and construction and are available in the following types.

Temperature sensors

HEINZMANN high-quality temperature sensors based on PT100, PT200 or PT1000 measuring cells are used on all HEINZMANN systems and have become the industry benchmark for response times, long term stability and measurement precision.

Our temperature sensors are suitable for measuring fluids and gases. They have IP 65 protection rating. Measuring range of PT100/PT200 -40° C up to +800° C (short time + 900° C) and PT1000 -40° C up to +150° C.



Pressure sensors

HEINZMANN offers gas, boost and oil pressure sensors tailored to virtually any specification.

HEINZMANN pressure sensors are renowned for their accuracy and reliability and guarantee precision pressure sensing.

Sensors have a IP 65 protection rating and are available for pressures ranging from 0 to 2.5, 4, 10, 16 and up to 2000 bar.



Speed sensors

Inductive speed sensors

Inductive speed sensors are one of the most cost-effective methods for measuring speed.

These are contactless sensors and therefore free from wear. They can be customised to a wide range of requirements. Strongly built, the sensors are designed for intensive applications in severe environments.

HEINZMANN inductive speed sensors are available with metric or inch threading. Sensors have IP 55 protection rating and are designed for frequencies from 50 to 12,000 Hz and air gap range 0.5 - 2.5 mm.



Hall-effect speed sensors

Hall-effect sensors are ideal for the contactless, wear-free measurement of speed. The advantage of hall sensors in comparison with inductive speed sensors is that the output signal is not dependent on speed. Sensing is based on tooth position. Varying the tooth configuration makes it possible to tailor this sensor type to a wide variety of applications. Hall speed sensors are also less sensitive to external interference.

Inductive speed sensors are unsuitable for the control of injection systems. Hall-effect speed sensors, on the other hand, are ideal for electronic injection systems and electrically controlled gas valves.

Hall speed sensors have a IP 65 protection class rating and operate at a switching frequency of 5 to 20,000 Hz and air gap range 0.5 - 2 mm.



For operation temperature and other technical details of the respective sensor please see manual.

Applications

- **Gas, diesel & dual fuel engines**
- **Gas, steam & water turbines**
- **Generators**
- **Marine**
- **Rail**
- **On- and off-road vehicles**



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Selection of HEINZMANN products

Wide range of digital and analogue control units



Different sizes of electrical actuators for 1 Nm up to 500 Nm



Electronic fuel control system (EFI) - control units from 4 cyl. up to 20 cyl. engines



Range of analogue and digital generator management units



Gas engine management



Common rail systems



Sensors & solenoids



Digital control systems for gas turbines



Hydraulic governors & actuators



Electric components of hybrid drive systems



Quality & Precision since 1897



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