



ifm application package: full protection for your compressors

My plant is
running smoothly.

Condition monitoring systems



compressors.ifm

Peace of mind: monitoring and condition-based maintenance of compressors



Continuous diagnostics:
Detection of motor damage with full coverage of the real operating hours.

Early diagnostics:
Monitoring of imbalance, wear and overall vibration.

Maximum efficiency:
Permanent diagnostics of winding problems or dirt in the motor by monitoring temperature.

Easy integration:
ifm provides individual solutions suited for different types of compressors.

ifm application package – applications.

Screw compressors, as used in:

- compressed air supply for machine tools
- general compressed air supply
- food industry
- granule conveying on injection moulding machines
- sealing air monitoring on machine tools
- assembly lines in the automotive industry
- placement of electronic components
- weight compensation on presses

“Thanks to the monitoring of the compressors, we can now carry out maintenance as needed. The extension of the intervals saves us several thousand euros per year.”
(Statement from an automotive supplier)

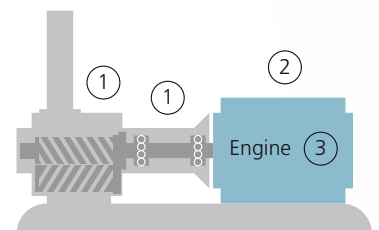


ifm application package Compressors

- ① Vibration sensor screw mounting
- ② Vibration sensor adhesive mounting with cable
- ③ Temperature sensor
- ④ Measured signal converter for temperature sensors
- ⑤ Inductive sensor for rotational speed detection
- ⑥ Diagnostic electronics
- ⑦ 24 V switched-mode power supply
- ⑧ Connection cables with socket
- ⑨ Parameter setting software for diagnostic electronics

As an option

- LR SMARTOBSERVER visualisation and alarm





For industrial applications



> *Condition-based maintenance when required instead of fixed service intervals. Replacement of parts can be planned.*

Reduce costs

> *Detect imbalance vibration, shaft misalignment and rotor wear in the compressor in good time.*

Prevent unplanned downtime

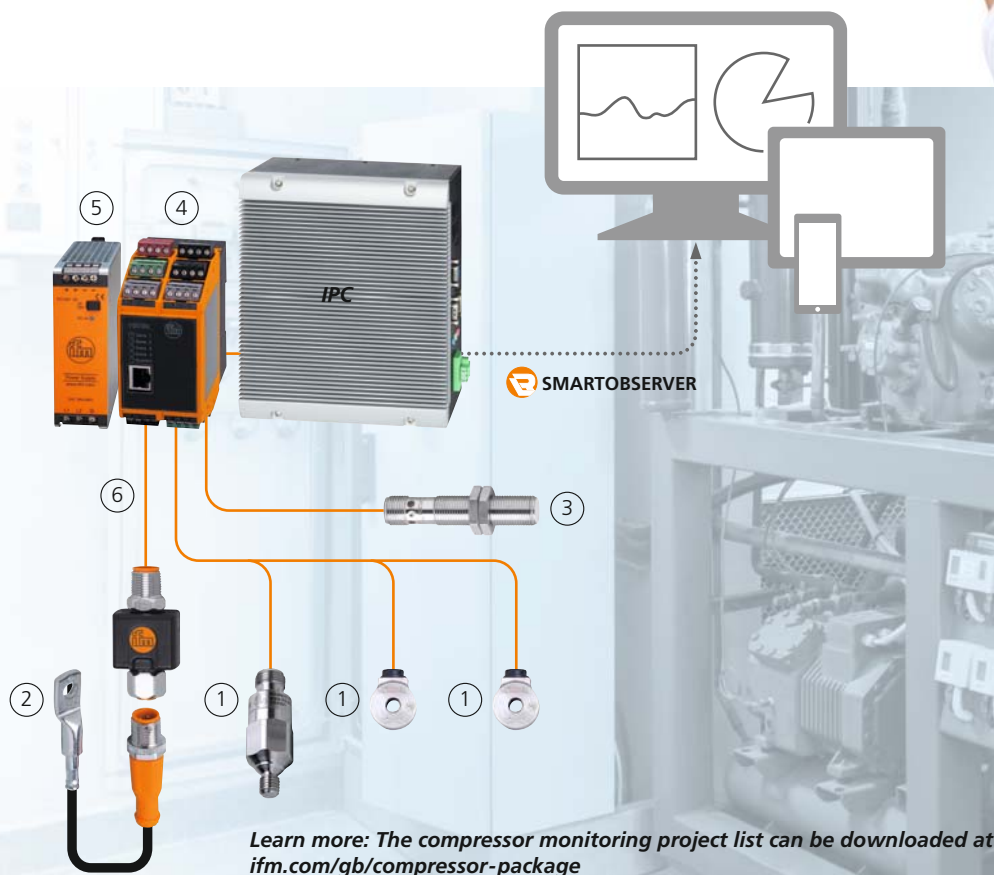
> *Data acquisition and analysis. Maintenance when needed.*

Process optimisation

> *Application package from the sensor to evaluation and network-based analysis. Scalable: Can be extended to other applications and / or ERP systems.*

Implementation independent of your IT department

"The detection of damage to the rotor bearing meant that maintenance only needed to replace the bearings. Without monitoring and early intervention the rotors would have been damaged as well and we would have had to replace them. We saved approx. 15,000 euros."
(Statement from a maintenance manager in a foundry)





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