



ifm application package: full protection for your fans

My plant is
running smoothly.

Condition monitoring systems



fans.ifm

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



Continuous diagnostics:

Full coverage of the real operating hours.

Early diagnostics:

Monitoring of imbalance, wear and overall vibration.

Maximum efficiency:

Permanent diagnostics of dirt accumulation e.g. on rotor blades.

Easy integration:

ifm provides individual solutions which are suited for different types of fans.

ifm application package – Applications

Radial fans with direct or belt transmission as well as axial fans, as used in:

- dust extraction systems
- fresh and exhaust air in paint shops
- workshop ventilation
- air-conditioning systems
- external ventilation of motors
- mining
- extraction systems in foundries
- oil mist suction on machine tools
- air supply for thermal power stations / waste incineration plants

“Condition Monitoring from ifm prevented production downtime three times within 6 months.”
(Production Manager from the automotive industry)



Monitoring of fan and motor, for example with belt transmission

ifm application package Fans

①	Vibration sensor screw mounting
	Vibration sensor adhesive mounting with cable
②	Temperature sensor
③	Measured signal converter for temperature sensors
③	Inductive sensor for rotational speed detection
④	Diagnostic electronics
⑤	24 V switched-mode power supply
⑥	Connection cables with socket
	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 damage to rotor blades, wheel / rotor imbalance vibration, shaft misalignment, damage to rolling element bearings, imbalance and wear in good time.*

Prevent unplanned downtime

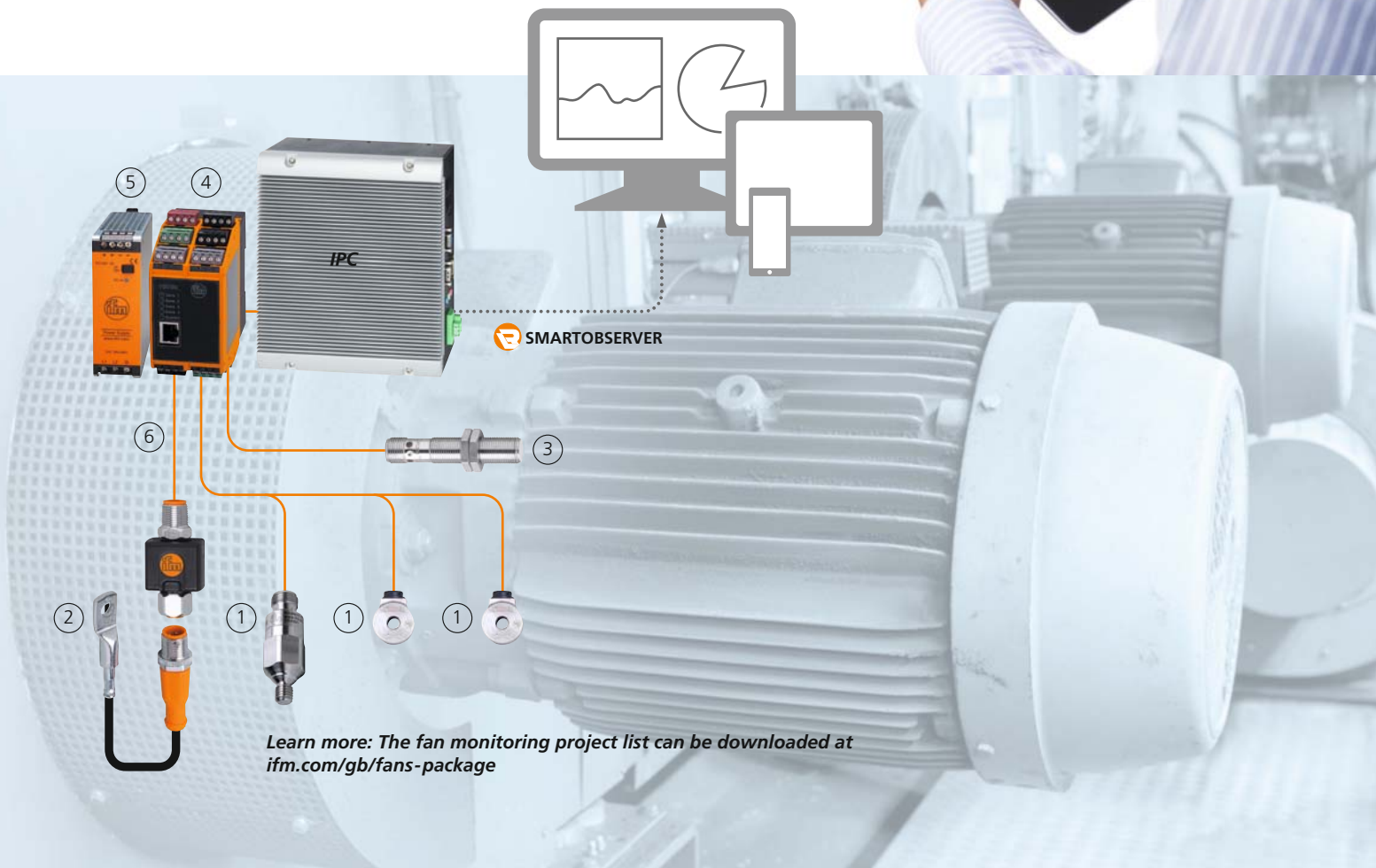
- > *Data acquisition and analysis. Cleaning the fan blades when required.*

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

*"Since we started using the ifm fan monitoring, the rotor blades are only cleaned if required. This saves us 15,000 euros a month."
(Automotive industry maintenance engineer)*



Learn more: The fan monitoring project list can be downloaded at ifm.com/gb/fans-package



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