



# ifm application package: Full protection for your cooling circuits

My plant is  
running smoothly.

Systems for condition monitoring of machines

cooling.ifm

# Peace of mind: Monitoring and condition- based maintenance of the cooling water supply



**Continuous diagnostics:**  
Heat transfer and flow as well as the actual operating hours are monitored.

**Early detection:**  
Detection of contamination and leakage or weld tip loss.

**Maximum efficiency:**  
Permanent diagnostics of contamination, e.g. in the filter or at the welding gun.

**Easy integration:**  
ifm provides individual solutions which are suited for different cooling water systems.

## ifm application package – applications

Monitoring of cooling water systems, for example, on:

- injection moulding machines
- machine tools with spindle cooling
- robot welding guns
- heat exchangers
- all machines with cooling and heating

**"We can react very quickly in case of a fault."**  
(Production Manager from the automotive industry)

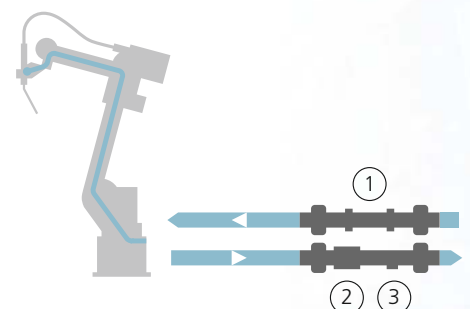


## ifm application package Cooling

- |   |  |
|---|--|
| ① | Flow meter                                     |
| ② | Temperature sensor                             |
| ③ | Pressure sensor                                |
| ④ | Diagnostic unit                                |
| ⑤ | 24 V switched-mode power supply                |
| ⑥ | Connection cable with socket                   |
|   | Parameter setting software for diagnostic unit |

## Optional

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**

- > *Leakage in the pipe or in the flexible hose system, kinks in the hose or blockage by particles in the cooling water circuit are detected early.*

**Prevent unplanned downtime**

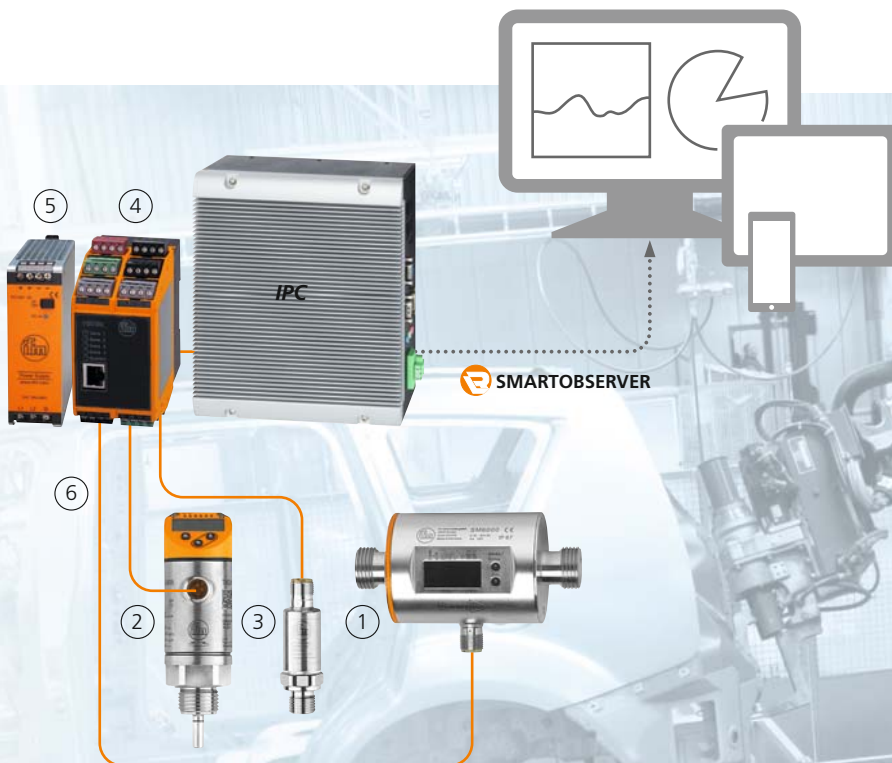
- > *Data acquisition and analysis. Maintenance when needed.*

**Optimise processes**

- > *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**

**"We can detect even very small leaks. The systems have been working reliably and without maintenance for years."  
(Maintenance Engineer from the automotive industry)**



**Learn more: The project list for cooling water monitoring can be downloaded at [ifm.com/gb/cooling-water-package](http://ifm.com/gb/cooling-water-package)**



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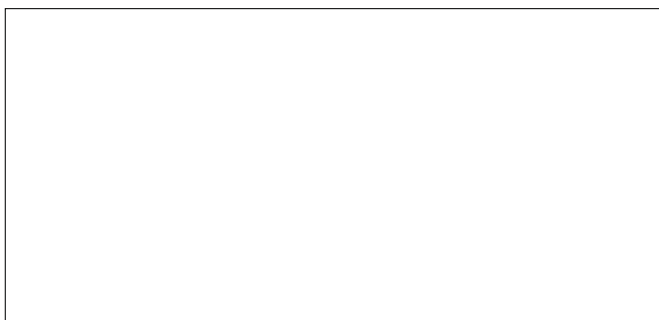
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