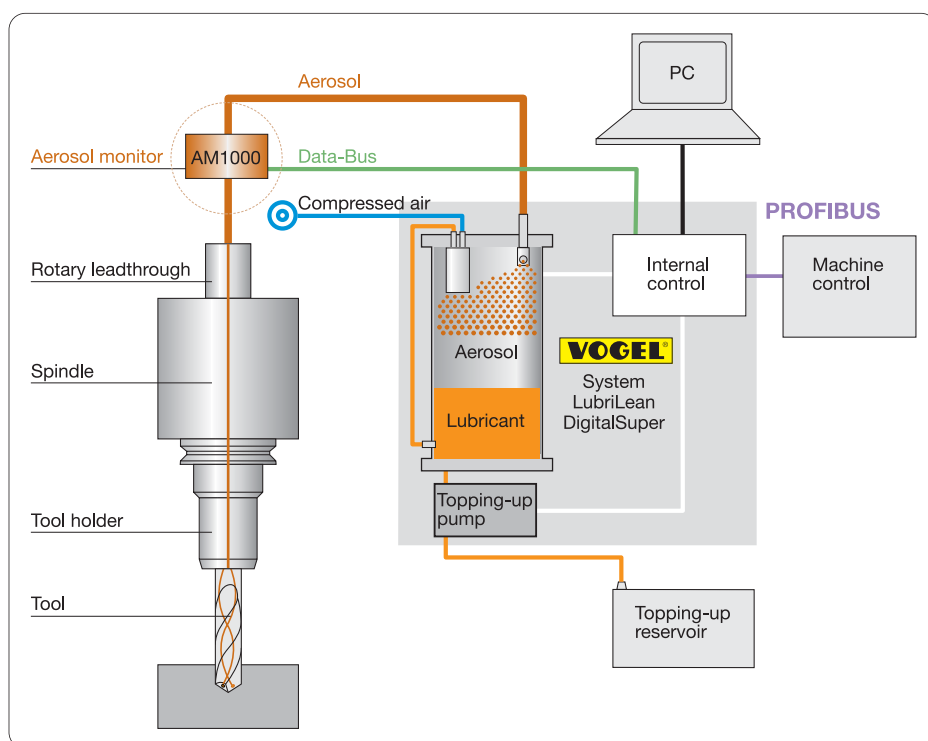




# For reliable machining processes

Aerosol monitor AM1000



Reliable

Direct monitoring of aerosol density at the tool spindle

Assured future

Communication with LubriLean DigitalSuper units via Data-BUS

Customer-friendly Easy to integrate in system



# VOGEL

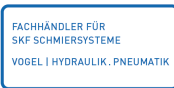
HYDRAULIK · PNEUMATIK

Im Folgenden finden Sie Informationen zu einem Teil unseres Leistungs- und Serviceportfolios.

Sollten Sie hierzu oder zu anderen Produkten Fragen haben, treten Sie jederzeit gern in Kontakt mit uns:

**Tel: 03573- 14800**  
**info@vogel-gruppe.de**

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## Continuous monitoring of the aerosol

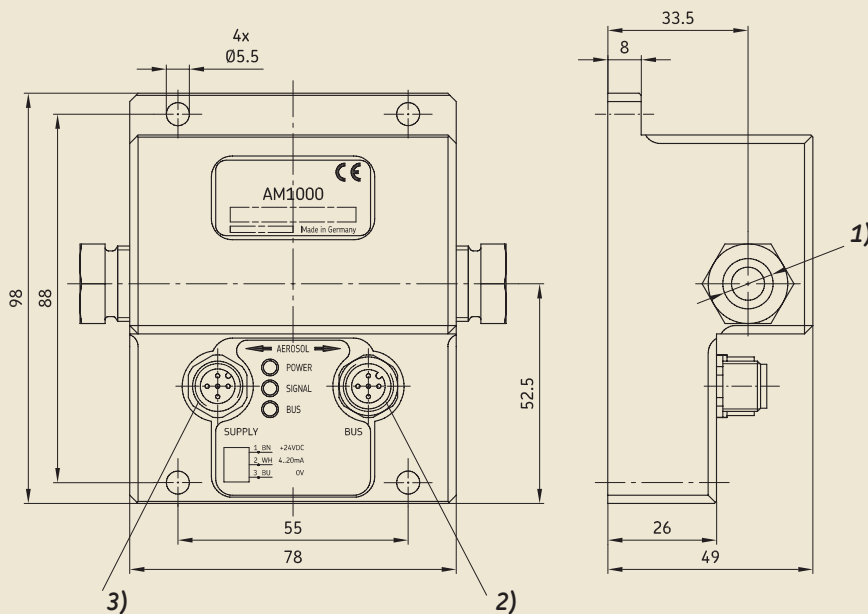
The AM1000 aerosol monitor is a measuring sensor for continuous monitoring of the aerosol flow in minimal quantity lubrication systems. It was specially developed for use on DigitalSuper MQL systems, but it can also run on an autonomous basis.

An analog current signal can be picked up directly from the aerosol monitor. It provides a yardstick for the prevailing aerosol density. If a current value deviates from the reference value, that can be interpreted immediately as a warning. As an optional feature it is also possible to define a measuring range of interest with the help of a teach adapter.

DigitalSuper systems make it possible to obtain a machining- and tool-dependent yardstick for the aerosol or oil throughput. Not only the value for the aerosol current but also the volumetric air flow and aerosol density are sent to the machine tool via a PROFIBUS interface.

A comparison of the current measured values with the reference values determined earlier lets the user detect significant deviations in the aerosol supply in real time.

Aerosol monitor Order No. AM1000



### Technical data

#### Aerosol:

|                           |                        |
|---------------------------|------------------------|
| Medium                    | aerosol for MQL        |
| typical droplet $\phi$    | 0.5 to 5 $\mu\text{m}$ |
| Max. permissible pressure | 10 bars                |
| Max. throughput           | 800 NI/min             |

#### Connections:

|                 |                           |
|-----------------|---------------------------|
| 1) Aerosol      | for $\phi$ 12 mm hose     |
| 2) Data-BUS     | M12x1, 5-pole socket type |
| 3) Power supply | M12x1, 5-pole pin type    |

Operating voltage 24 V DC  $\pm 25\%$

Power consumption with load max. 80 mA

#### Output signal:

power input 4 to 20 mA

Data output for communication with LubriLean DigitalSuper units from VOGEL via BUS

More information about LubriLean minimal quantity lubrication and accessories for the aerosol monitor see brochure No. 1-5102-US

### Willy Vogel Aktiengesellschaft

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Order No: 1-5108-US (06/2006)

