

# ALLMIND®

## For up to 16 pumps simultaneously.

- ALLMIND® is flexible:
- >> Simultaneous control and monitoring of multiple pumps
  - >> May be retrofitted to any pump, with or without frequency converter
  - >> Existing ALLMIND® installations may be expanded without limitation

Additional information is available at:  
[www.allweiler.com](http://www.allweiler.com)



The ALLMIND® platform consists of several individual units:

**>> AM101 master module**  
 Each ALLMIND® system requires only one of this module. It displays all messages from all pumps, stores the most recent 100 messages (cyclical) and centrally records all sensor values.

**>> AM301 vibration analysis module**  
 AM301 utilizes its internal intelligence to monitor mechanical oscillation and the bearing. AM301 forwards the results over the CAN bus to the AM101 or AM201 modules.

**>> Additional sensors**  
 Depending on the application, each pump in the ALLMIND® system will contain when indicated, pressure, temperature, leak, and/or output sensors.

**>> AM201 satellite module**  
 If an ALLMIND® system includes more than one pump, each additional pump will have one AM201 module. It records the sensor values of the respective pump, independently interprets the values, and triggers any reaction previously defined for that specific pump. Communication with the user and centralized storing of the sensor values passes through the master module; data is transferred over the CAN bus.

**>> Frequency converter**  
 AM101 and AM201 have an integrated intelligent control algorithm. In addition to monitoring tasks, ALLMIND® also works in conjunction with simple and economical frequency converters to control the speed of each pump with enough precision to achieve the right capacity and pressure.

### Common examples of ALLMIND® applications

- >> Temperature-dependent controlled processes (such as cooling water applications)
- >> Fill-level dependent, NPSH-optimized tank draining (such as ballast water)
- >> Logging of operating points (to generate load profile, for example)
- >> Increased safety (of thermal oil systems, etc.)



Experienced ALLWEILER technicians are ready to respond at any time of day or night, wherever you need them. You can count on service and support within 24 hours no matter where your ALLWEILER-equipped installation is located.

The addresses of ALLWEILER global representatives are available here:  
<http://www.allweiler.com>



- Colfax/ALLWEILER manufacturing centers
- Colfax/ALLWEILER sales and service locations

### ALLWEILER products and services

- >> Centrifugal pumps
- >> Propeller pumps
- >> Screw pumps
- >> Progressing cavity pumps
- >> Peristaltic pumps
- >> Macerators
- >> Plant engineering
- >> Systems
- >> Monitoring and control

### ALLWEILER application categories

- >> Marine and Offshore
- >> Power Generation
- >> Oil and Gas
- >> Process Technology
- >> Chemistry
- >> Bioenergy
- >> Heat Transfer
- >> Residential and Commercial Engineering
- >> Machine Tools
- >> Pulp and Paper
- >> Water and Wastewater

### ALLMIND®: Low Total Cost of Ownership (TCO) is guaranteed

#### Protection of the pump and system

- >> Continuous and fully automatic monitoring
- >> Immediate notification when unusual operating conditions arise
- >> No secondary damages
- >> No unplanned production downtime

#### Maximum efficiency, low energy requirement

- >> Your pump will run with the lowest possible energy consumption
- >> Pump capacity will always be precisely what is required
- >> Take full advantage of a long service life

#### Low costs for maintenance and spare parts

- >> Service can be planned in advance
- >> Significantly longer maintenance intervals

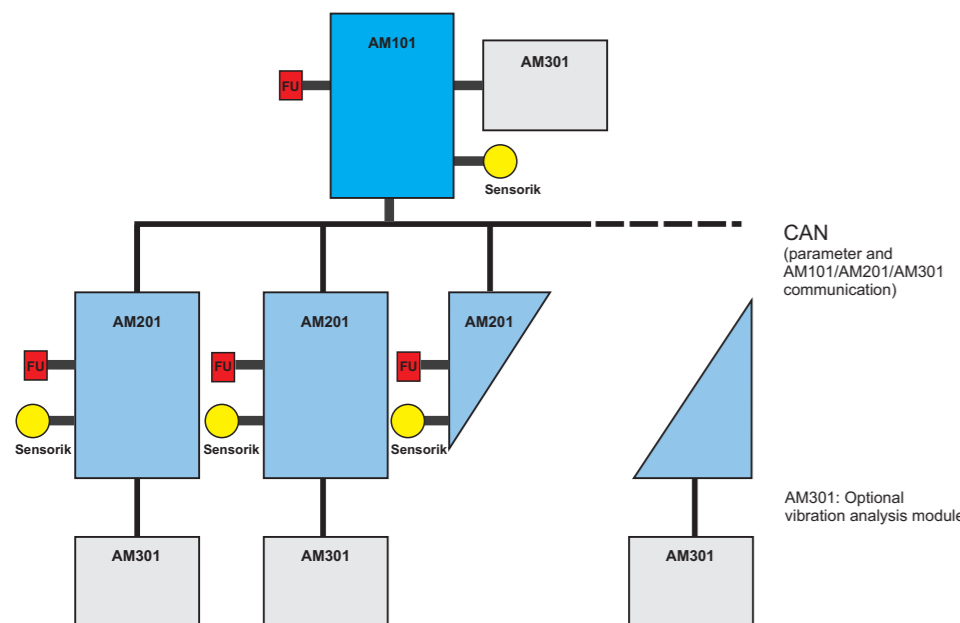
#### Process optimization

- >> Consideration of liquid properties



# ALLMIND®

## Safe and straightforward design.



### CAN bus

ALLMIND® exchanges sensor data over a standardized CAN bus. Integrated into the system are the ALLMIND® master module AM101, the AM201 satellite module of each monitored pump (when using multiple pumps), and all AM301 vibration analysis modules. The CAN bus connection is highly resistant to disturbance and very reliable.

### Startup wizard

Use of ALLMIND® is self-explanatory and does not require special knowledge. Even startup is easy. An integrated wizard guides the user through each of the individual steps.

### No chance of improper operation

Passwords secure multiple levels of intervention and input options.



ALLWEILER is a business unit of Colfax Corporation

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# ALLMIND®

Electronic and fully automated monitoring and control system for any application and all pumping tasks.

- >> Modular design adapts to the overall system
- >> Preconfigured settings and customized optimization
- >> May be retrofitted at any time

### >> ALLMIND®: MONITORING AND CONTROL IN ONE UNIT

# Spending less money for your asset: Condition monitoring and efficient control.



LOWER ENERGY COSTS  
 up to 40 %

LOWER MAINTENANCE COSTS  
 up to 50 %

