



## Press Release

Monday, April 24, 2017

# Intelligent Diagnostic and Communication System

## **Baumüller Demonstrates Predictive Maintenance System with Smart Data Analysis**

With BAUDIS IoT, the Nuremberg-based drive and automatization specialist Baumüller presented a system for predictive maintenance at SPS 2016. But BAUDIS IoT can do much more than that. It is the consistent enhancement of the BAUDIS diagnostic system developed by Baumüller, which has successfully been in use for more than 20 years. BAUDIS increases the process reliability and availability of production and is successfully used worldwide in machines and plants.

BAUDIS IoT, the latest version, is an IoT-capable diagnostic and communication system that allows for a simple networking of machines and systems via the Internet and the intelligent analysis of data. The networked version benefits from the long-standing expertise of a successful system. The system can be used independently of the manufacturer of the automation components and the sensors and therefore can easily be retrofitted and upgraded. It is therefore equally suitable for greenfield and brownfield plants, i.e. for the digitization of new and existing production facilities.

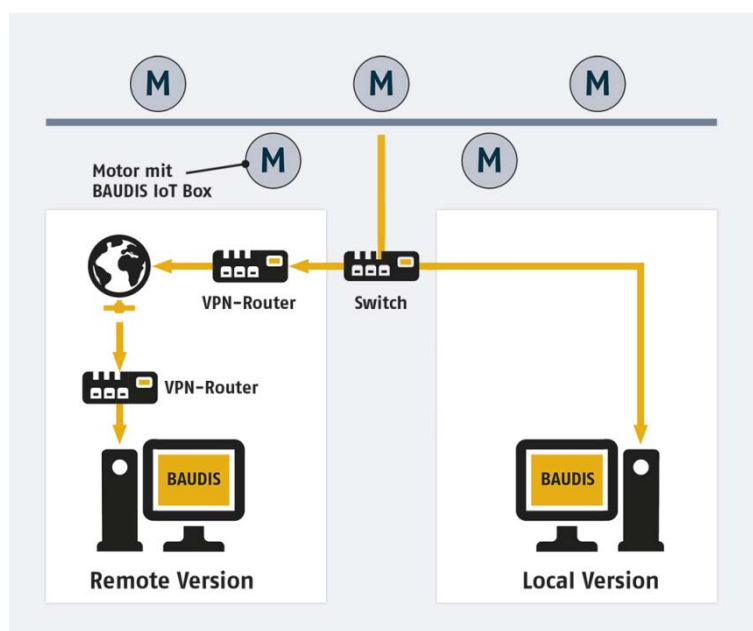
### **Two versions for data archiving and evaluation**

In principle, two versions for linking machines and systems are available. If the decision favors the local version, the data recorded on the drive will be evaluated directly by the operator on site. If the remote option is preferred, the data is uploaded to the cloud and is archived and analyzed either centrally at the customer's location or externally at a service provider's location for example. The benefits of the second version: The networking of plants and locations in the cloud or via a central server, i.e. an evaluation unit, allows for additional comparisons and evaluations. In addition, the updates can occur centrally. Externally, the evaluation always occurs with the latest available algorithms.

BAUDIS IoT from Baumüller allows for the continuous monitoring of automation components and machine states, data recording and analysis and the generation and output of a recommendation for action. The evaluation always occurs with the latest available algorithms. The system is thus continuously made more intelligent and uses algorithms to develop independent solutions (machine learning). By avoiding production errors, productivity increases and does so automatically through a self-regulating process. BAUDIS IoT can be used and upgraded at any time independent of the manufacturer and the sensors used.

### Smart data analysis saves time and money

Industry 4.0 applications create countless opportunities to improve machines, optimize drives, increase availability and make service more efficient. BAUDIS IoT is an industry 4.0 technology solution and provides for an intelligent networking of systems. With BAUDIS IoT, machine operators have an ideal system available to them in order to monitor their production and, in the event of a looming failure, to be able to act or react quickly or in a timely manner, thus increasing the running times of the machines and systems by means of scheduled maintenance measures. This saves time and money and improves the machine availability as well as the productivity. For the machine manufacturer, BAUDIS IoT is a good way to offer the system as an option and thus to create added value for his customers. Baumüller can completely take over the installation, monitoring and maintenance of the BAUDIS IoT system if desired.



**Figure:** Archiving and evaluating data can take place locally or remotely with BAUDIS IoT. Smart data analysis is used to avoid production errors and to increase productivity, all automatically through a self-regulating machine learning process



BAUDIS IoT - The Predictive Maintenance System  
<https://youtu.be/nr4Q7W-nMXw>



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**Baumüller** is one of the leading manufacturers of innovative automation and electric drive systems. At six manufacturing locations and over 40 subsidiaries spread all over the world, 1700 employees plan, develop, produce and install intelligent system solutions for mechanical engineering; from operation and visualization tools to Motion Control software as per PLCopen, from software modules to controllers, also including converters, electric drives and the whole service range for ready to use automation solutions.

The areas service, installations, fitting, and relocation add to the wide range of Baumüller's services. In the mechanical engineering industry, Baumüller is one of the leading partners for automation solutions worldwide.

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