

Sense, Transmit, Manage Data

About us

WSN Technologies offers hard- and software solutions to capture, transmit and manage sensor data in the Internet of Things (IoT).

We focus on secure and long range wireless networks with minimum power consumption (LPWAN).

We listen to our customers and provide solutions that perfectly meet your requirements.



HOCHSCHULE
OSNABRÜCK
UNIVERSITY OF APPLIED SCIENCES

The WSN eKanban solutions are the results of our close collaboration with well-known logistics experts. We would like to thank Prof. Wolfgang Bode, University of Osnabrück, for the scientific support in the development / implementation / optimization of logistics concepts, logistics processes and profitability assessments.

http://bit.ly/Prof_Bode

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eKanban by WSN Net AMS

Wireless Automated Material Supply control (AMS) for Production and Assembly

Seriennummer	Type	Status	Bat. Status	Letzte Änderung
IEQ0539713:1	AMS Sensor	Kein Bedarf	OK	
IEQ0540576:1	AMS Sensor	Kein Bedarf	OK	14:41:25
JEQ0006260:1	AMS Sensor	Kein Bedarf	OK	
JEQ0006273:1	AMS Sensor	Materialanf...	OK	14:36:11
JEQ0007169:1	AMS Sensor	Materialanf...	OK	14:36:10
JEQ0007191:1	AMS Sensor	Materialanf...	OK	14:35:44
JEQ0007229:1	AMS Sensor	Materialanf...	OK	14:35:43
JEQ0008642:1	AMS Sensor	Kein Bedarf	OK	14:35:20
JEQ0718662:1	AMS Sensor	Materialanf...	OK	14:35:34
JEQ0718775:1	AMS Sensor	Kein Bedarf	OK	
JEQ0718890:1	AMS Sensor	Kein Bedarf	OK	
JEQ0718891:1	AMS Sensor	Kein Bedarf	OK	
JEQ0718900:1	AMS Sensor	Materialanf...	OK	14:35:47
JEQ0718901:1	AMS Sensor	Kein Bedarf	OK	14:35:23
JEQ0718905:1	AMS Sensor	Kein Bedarf	OK	14:35:40

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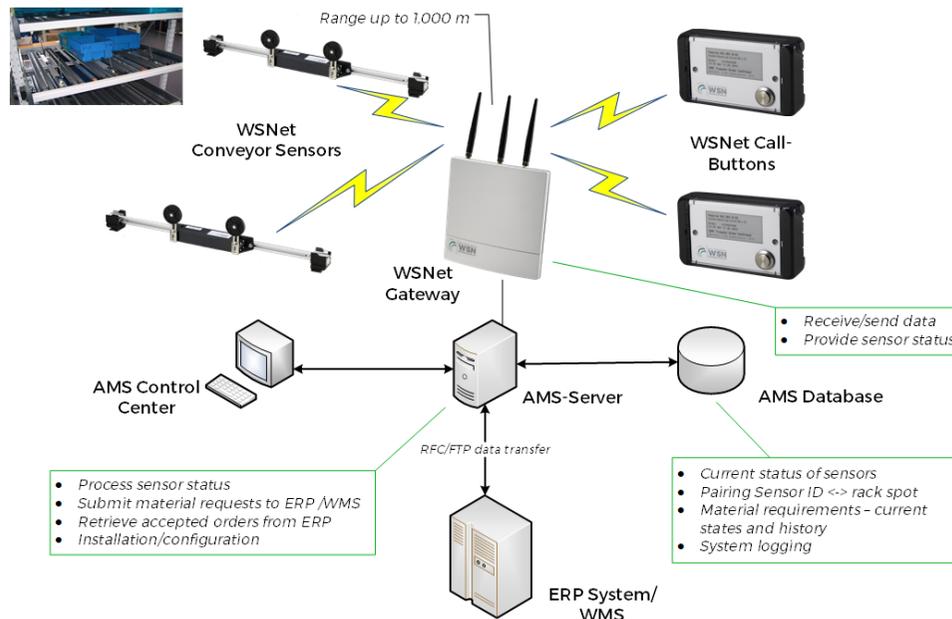
WSNet AMS System



Common Problems

In industrial production, the degree of complexity, required flexibility and amount of variants is overall increasing. As a result, the available space for materials at the assembly site is becoming scarcer, and material supply disruptions are becoming increasingly cost-intensive.

The cost-effective provision of the right material at the place of need in the required quantity is a growing logistical challenge.



System Solution

With WSN's Automatic Material Supply Control System (AMS) as an eKanban solution, you are able to meet these challenges.

A network of sensor modules equipped with latest wireless technology (WSNet) automatically detects the specific material requirements instantly and transmits the material request to the warehouse management system without any delay.

The radio sensor modules reliably report the current occupancy status of the load carrier replenishment spots in real time. A clear status visualization of all such eKanban carrier locations is provided by the AMS Control Center software.

The well thought-out assembly concept of the radio sensor modules is compatible to all common roller conveyor systems, e.g. by SSI Schäfer, Bito, ITEM, Creform, META or Trilogiq.

Benefits

The AMS system by WSN enables a flexible and highly efficient design of your Kanban material supply. Compared to conventional systems, it offers compelling benefits:

- detection and reporting of material requirements in real time
- scalable up to several thousand monitored load carrier locations
- cost-effective installation and maintenance
- easy operation and seamless connection to existing ERP systems
- wireless, energy-efficient sensor modules with outstanding noise-immunity
- only one or a few gateways are required
- coverage up to 1,000 m within buildings and battery life times of approx. 18 months
- minimization of human failure due to high degree of automation
- high data security thanks to AES 128 encryption

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