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
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eKanban
by WSNet AMS

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

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Logistics Challenges

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

Hence, the cost-effective in-time provision of the right material at the place of need in the required quantity is an increasing 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.

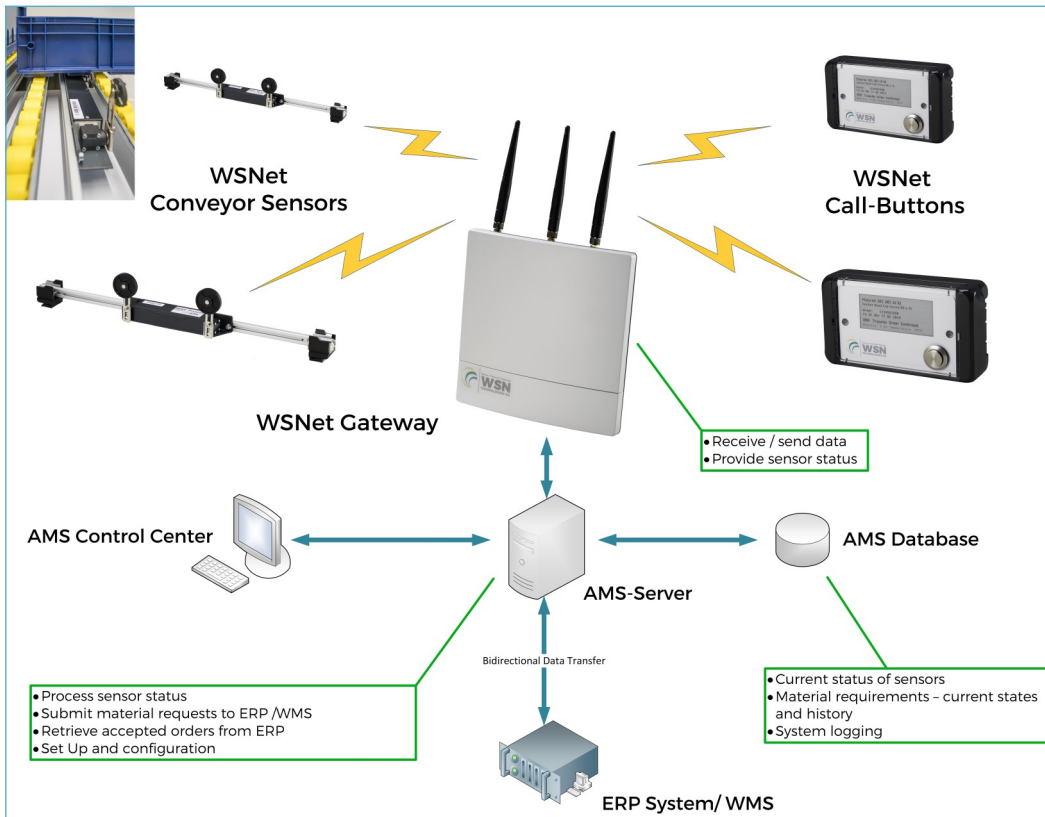The radio sensor modules reliably report the current occupancy status of the load carrier replenishment spots in real time – if required over distances of hundreds of meters. A clear status visualization of all such eKanban carrier locations is provided by the AMS Control Center software.

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

WSNet Conveyor Sensors

WSNet Gateway

WSNet Call-Buttons

- Receive / send data
- Provide sensor status

AMS Control Center

AMS-Server

AMS Database

Bidirectional Data Transfer

- Process sensor status
- Submit material requests to ERP /WMS
- Retrieve accepted orders from ERP
- Set Up and configuration

- Current status of sensors
- Material requirements – current states and history
- System logging

ERP System/ WMS

Contact:

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