

# Improving plant efficiency along the life cycle

## Software and online tools support EMS GmbH's activity

# EMS

Energie - und Medienversorgung Schwarza GmbH

The energy and media supply company Schwarza GmbH (EMS), a 100 percent subsidiary of Thüringer Energie AG, operates a heating plant in the Schwarza Industrial Park, Germany.

"Endress+Hauser offers excellent tools over the plant's entire life cycle. For standard or replacement devices, Applicator helps me find suitable instruments. For further important information and direct ordering, I use the Online Shop. I can manage the measuring technology installed in the system easily and conveniently in the W@M Enterprise maintenance database. From beginning to the end, the solutions provided by Endress+Hauser are truly well thought-out and save me time in my daily work!"

Gunnar Fritsche,  
Maintenance Foreman for electrical measuring, control and regulation.  
EMS GmbH, Industrial Park Schwarza  
Germany



Gunnar Fritsche



EMS GmbH must ensure interference-free energy supply for various customers (industrial plants and cities).

**In addition to the large industrial customers in the Schwarza Industrial Park, EMS GmbH provides many small and medium-sized industrial facilities with electric power, heat, industrial and process water, compressed air and nitrogen. Software and online tools from Endress+Hauser provides EMS GmbH the support needed every step of the way, from engineering to maintenance.**

### The results

- Simple and reliable selection of the instruments
- Time-saving online procurement of measuring devices
- Central, digital management of the instruments
- Full transparency throughout the system's entire life cycle

**Customer challenge** All information on the power plant process and the energy distribution are brought together centrally. State-of-the-art

monitoring and control technology is necessary to enable a reliable, interference-free energy supply for all customers.

**Our solution** In the electrical measuring, control and regulation field, EMS GmbH relies on the measuring technologies, services and solutions of Endress+Hauser. The software solutions provided play an important role in their daily work. While Endress+Hauser's Applicator supports the easy selection and design of the measuring technology, the Online Shop helps as an additional information platform with fast procurement of products. In the operating phase, the measuring instruments are operated and configured through FieldCare. All important information for electrical measuring, control and regulation technology are collected in the W@M Enterprise central maintenance database.

Endress + Hauser 

People for Process Automation

**Efficient cross-process cooperation** Data on a system and its components begins accumulating from the first day of planning and forward. From design and engineering, procurement of devices, installation and commissioning, to operation and maintenance: in each phase of the life cycle of a system and its components, information is required. W@M Life Cycle Management is an open and flexible information platform with software applications and services to support the user throughout the entire life cycle of their plant.

## The main steps

### 1. Project meeting

As part of a project meeting EMS GmbH and Endress+Hauser discussed direct measures for optimizing the different processes in the entire life cycle of the plant.

### 2. Solution suggestions

EMS GmbH saw the benefit of the support provided through all life cycle phases and decided to go with Endress+Hauser's proposed solution. This begins with the simple selection of the measuring technology in engineering with Applicator and ends in the central, self-administering W@M Enterprise maintenance database.

### 3. Installation and training on-site

The corresponding software modules are installed by Endress+Hauser associates on-site. EMS employees are then trained thoroughly to allow for immediate and sustainable use of the individual tools.

The screenshot shows the 'Applicator' software interface. At the top, it says 'People for Process Automation'. Below that, there's a navigation bar with 'Applicator' > 'Selection' > 'Level - Continuous / Liquids'. A progress indicator shows three steps: 1. Selection (active), 2. Sizing, and 3. Configuration. The main area is titled 'Selection by application requirements'. There's an 'Input request' field and a 'Show principles & products' button. Below that, it says '9 Products'. A message states 'The input mask does not contain any required fields.' The form has several fields: 'Principle' (dropdown), 'Process temperature' (From 20 to 80 °C), 'Process pressure' (From 4 to 35 bar\_a), 'Measurement distance' (dropdown), 'Tank size / Application' (dropdown), 'Interface measurement' (Liquid / Liquid), and 'Mounting position' (Top).

Easy selection of a measuring instrument via Applicator

The screenshot shows the 'Endress+Hauser W@M Enterprise' homepage. At the top, it says 'People for Process Automation'. Below that, there's a navigation bar with 'Home', 'Engineering', 'Procurement Assistant', 'Installed Base Assistant', and 'About W@M'. The main area is titled 'Endress+Hauser W@M Enterprise'. There are two columns of tools. The left column is 'Manage your installed base' and includes: 'Application for scheduling tasks for a user: Task Scheduler', 'Application to search spare parts for E-H products: Spare Parts', 'Installed Base Assistant', and 'Link to the Endress+Hauser Download Area: Download Area'. The right column is 'Engineering & Procurement' and includes: 'Applicator Selection supports the selection of the right product for your use case: Applicator Selection module', 'Applicator Sizing supports the selection of the right product for your use case: Applicator Sizing module', 'Applicator Industry Applications supports the instrumentation of typical industry applications: Applicator Industry Applications', 'Link to the Endress+Hauser Online Shop: Online Shop', and 'Link to the Endress+Hauser Shipment Tracking: Shipment Tracking'.

W@M Enterprise's homepage gives access to all online tools

## Instruments International

Endress+Hauser Instruments  
International AG  
Kägenstrasse 2  
4153 Reinach/BL  
Switzerland

Tel +41 61 715 8100  
Fax +41 61 715 2888  
info@ii.endress.com  
www.endress.com