



ENERGY MANAGEMENT SYSTEM

ACCORDING TO ISO 50001

Batch-related energy recording
Intelligent energy optimization

ENVIS WEB

WEB-BASED ENERGY MANAGEMENT

THE STANGE ENERGY MANAGEMENT SYSTEM

offers a wide range of measurement options, is freely scalable with simple parameterization. Whether for measuring of voltage, current, calculating power and work values as well as gas, for continuous monitoring of differential currents or for intelligent reduction of power peaks for contract optimization.

Energy and production data can be linked as plant information. This makes it possible to determine the energy costs per batch.

The STANGE energy management system consists of the following components:

- » Energy Management System ENVIS WEB
- » Energy Meter EM-71
- » Energy Manager EMAX-6XX
- » Energy Logger, batch-related

FEATURES:

- » Energy measurement according to ISO 50001 (electricity and gas)
- » Peak load management
- » Determination of energy consumption per batch (electricity and gas)

The ENVIS WEB energy management system according to ISO 50001 monitors all consumption data and creates cost center statements at the push of a button. All relevant energy and process data are automatically recorded and evaluated by the web-based software.

So, timely decisions can be made or process sequences can be adapted in such a way that energy peaks are avoided. Common measuring devices are supported regardless of manufacturer and the system is scalable in terms of the number of meters and locations. Visualization and reporting allow the implementation of ISO 50001 certification.

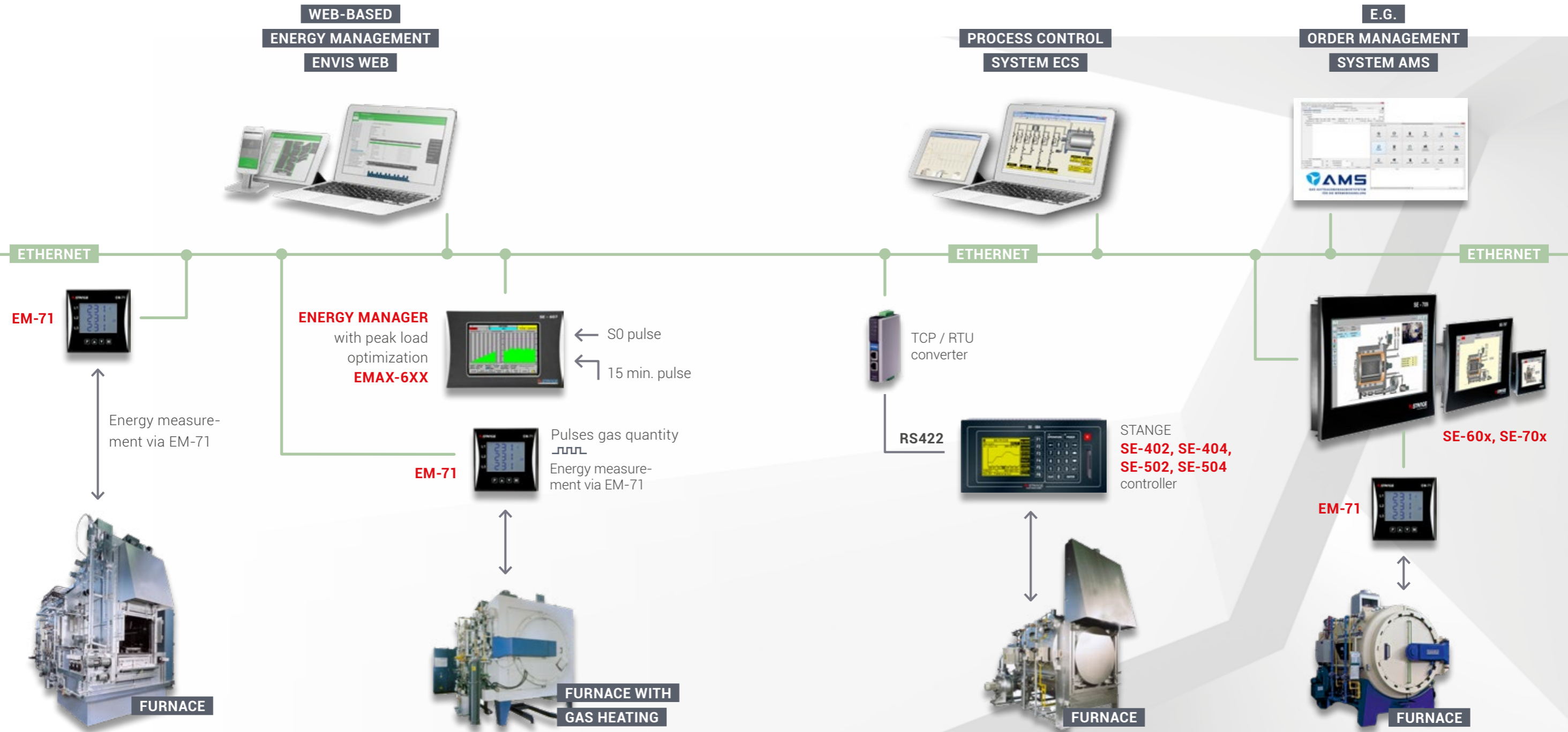


WEB-BASED ENERGY
MANAGEMENT ENVIS WEB

PROCESS CONTROL SYSTEM

ECS

MONITOR AND OPTIMISE WITH ENVIS WEB



With the ENVIS WEB energy management system according to ISO 50001, you can monitor all consumption data and create cost center statements at the touch of a button.

The energy management system (EMS) can be quickly integrated into existing IT environments and scaled to an unlimited number of meters or locations.

Energy management is the basis for optimizing the available energy. The recording and evaluation of all relevant energy and process data is automated by the web-based software.

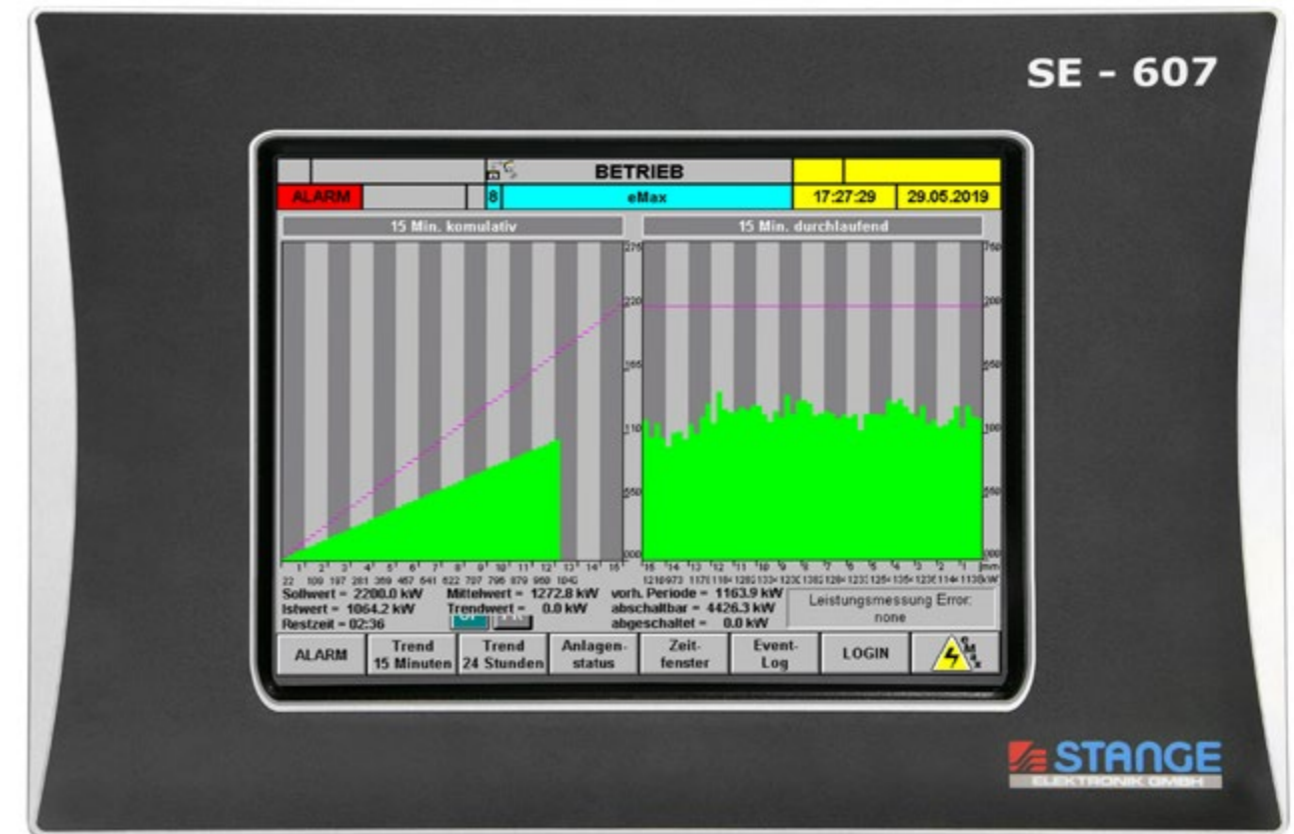
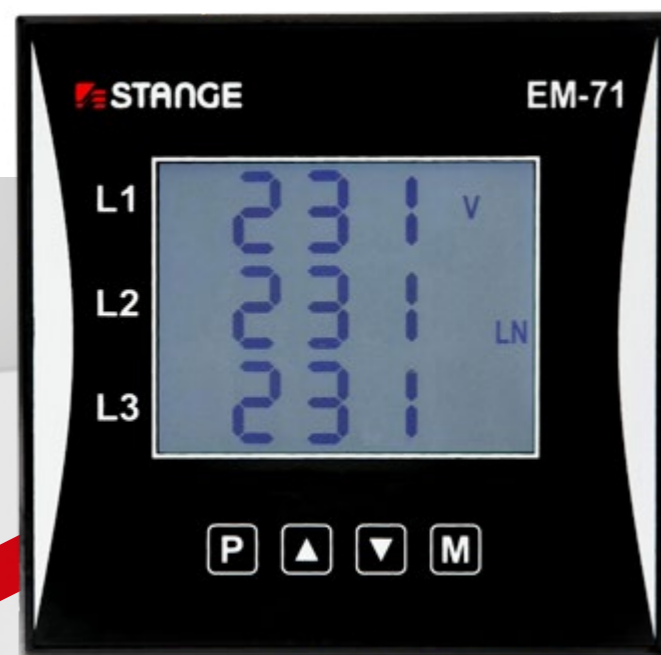
Based on this data, it is possible to make prompt decisions or to adjust process sequences in such a way that energy peaks are avoided.

ENERGY MEASURING DEVICE EM-71

THE EM-71 ENERGY METER IS USED TO MEASURE THE CONSUMPTION OF ENERGY AND GAS. An integration into existing PLC systems via Ethernet is possible without problems. In connection with STANGE program controllers and ECS control system, a batch-related energy and gas recording can be carried out. The batch-related energy data can then be transferred to a higher-level ERP system, e.g. ams (from TTC).

In this way, energy ratios energy/kg can be formed.
The EM-71 has one digital input and 2 digital outputs.

- » Consumption measurement of electrical energy / gas (digital input)
- » Integration in PLC systems



ENERGY MANAGER EMAX-6XX

AN SE-6XX WITH THE SOFTWARE MODULE EMAX-6XX IS USED AS ENERGY MANAGER WITH PEAK LOAD OPTIMISATION. An intelligent reduction of power peaks (E-Max) for contract optimization with the energy supplier is implemented with this. The loads can be connected via the Ethernet interface with ModBus TCP Master.

- » Input for S0 and 15-minute pulse
- » Software module for SE-6xx
- » Ethernet interface with ModBus TCP master
- » Atypical network use
(different max. setpoints depending on day/time)
- » Event Log
- » Calculation and management of batch-related energy data for Stange units (optional)

LOCATIONS & REPRESENTATIONS

Head Office Germany

STANGE Elektronik GmbH
Rudolf-Diesel-Str. 15-17
51674 Wiehl (Bomig)
Phone: +49 (0) 2261-95790
Fax: +49 (0) 2261-55212
info@stange-elektronik.de

Office Thuringia, Germany

STANGE Elektronik GmbH
Wandersleber Str. 1b
99192 Apfelstädt
Phone: +49 (0) 36202-75090
Fax: +49 (0) 36202-750991
info-th@stange-elektronik.de

Office India

SukhSwapna, R.L.117, Milap Nagar
M.I.D.C, Dombivli-East Thane
421203 Maharashtra
Phone: +91 750 692 7280
adeshpande@stange-elektronik.com

Office China

Room No.1609B, Shenergy International
Building, No.1 Middle Fuxing Road
Huangpu District, Shanghai
Post Code: 200021
Phone: +86-21-64811741
info-ch@stange-elektronik.com

Office USA

1778 Center Rd
Avon, Ohio 44011
Phone: +1 330-313-6993
dlongenette@stange-elektronik.com

USA

Heat Treating Equipment
82 Heron Drive
SC 29644 Fountain Inn
Phone: +1 864-915-7584
rmono@charter.net
www.https.com

Japan

Nippon S.T. Johnson
No.2-6, Kojimachi 3-chome
102-00 83 Chiyoda-ku, Tokyo
Phone: +81 3-5210-5211
Fax: +81 3-5210-5210
www.njc-net.co.jp

Italy

Metalconsulting S.r.l.
v.C.P. Taverna 122
20050 Triuggio (MI)
Phone: +39-0362-91 83 94
Fax: +39-0362-97 83 28
www.metalconsulting.it

Spain

ACONTROLbcn
Passeig Torras i Bages
08030 BARCELONA
Phone: +34 648 29 00 62
acontrolbcn@gmail.com

Czech Republic

ECOSOND s.r.o.
K Vódarne 531
257 22 Cercany
Phone: +420-317-777-772
Fax: +420-317-777-772
www.ecosond.cz

Brasil

TECPROPRO
Rua Eleonora Cintra, N° 469
Tatuapé, São Paulo, SP
Phone: +55-11-3042-3790
www.tecpropro.com

 **STANGE**
ELEKTRONIK GMBH