



# COMPANY PROFILE

## GP Systems GmbH

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**GP SYSTEMS**

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# INTRODUCTION

## Strategic Highlights

Over the years of operation, GP Systems GmbH developed a line of programmable logic controllers (PLCs), starting with the series for power generation, adding oil and gas and general process industry PLC, and further extending with compact PLC for remote I/O and local installations.

Engineers of the company had successfully developed own and joint solutions, including PLC-based systems for each process in the power stations, metering and control systems for oil custody transfer, gas odorizing systems, and others.

Continuously challenged by the new projects and search of new solutions, we do our best to help our customers automate their processes with fast and redundant systems.

## Operating Highlights

The year 2018 was marked for the group by putting into operation a second line for SMD assembly and by this doubling our production capacity. That was an important step after installation of the automatic THT components placement line. Next step in the operations is installation of the purchased line for conformal coating.

*“Process automation. In the heart of each engineer.  
And at the heart of Europe.”*

## Looking Ahead

The company is investing into its future by continuously expanding its product range and improving the existing products. Stay updated on the new products and solutions.

**Kirill Gorbushin**  
**Managing Director**  
**November 15, 2018**

# COMPANY OVERVIEW

## Company

GP Systems GmbH was established in 2014 in Kassel, Germany. The focus of the company is manufacturing of the automation equipment for the process industries. The engineering team of the company has an extensive experience in developing automation solutions for steam and gas turbines, and in automating processes in the gas industry.

For many projects, the company positions itself purely as a vendor, supporting its partners, who are the holders of the key knowledge and technologies in their respective fields.

The main industries served by the company are:

- Power distribution
- Power generation
- Oil and gas (mid-stream and upstream)
- Utilities

At the end of 2017, the group had around 650 employees. GP Systems is a registered trademark for our products.

## Contact Details

GP Systems GmbH is located at Ochshäuser Str., 45, 34123, Kassel.

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# ENGINEERING AND FACILITIES

## Engineering

Engineering team of the group counts several hundred engineers with many of them holding Master and PhD degrees in electronics, IT, software development. Presence of own engineering team and their close contact with the specialists from our manufacturing facility allows fast development of custom products.

## Production Facilities

The factory covers full production cycle, from the purchase of the components to the final quality testing within the same facility.

The warehouse was designed and put into operation with automatic placement system, with the ERP system providing indications for the places for components and finished goods, optimizing use and accelerating speed of operation.

SMD assembly has two lines, an automatic line for THT assembly, and optical testing machines at the end of each line, as well as X-ray machine for the tests of soldering quality of BGA components.

Finished products undergo temperature testing to identify hidden defects in the components to provide high quality and reliability of our products.



# QUALITY CONTROL

**High quality of the products is guaranteed by the continuous testing process in the in-house laboratory. In the engineering phase are done comprehensive tests, while during production are performed run-in tests to identify hidden defects of the components.**

The test facility performs certification, periodical, typical, qualification and research tests of products on the main factors of external influences. It includes the following areas:

- Test laboratory (21 types of immunity tests, 4 types of emission tests)
- Calibration laboratory (primary calibration and periodic verification of measurement equipment)
- Electrical safety laboratory (tests and measurements for electrical installations up to 1000 V and above)
- Environmental testing laboratory allows verification of operation in a temperature chamber for R&D in the range of temperatures from -60 °C to +160 °C with relative humidity up to 98 % (for positive temperatures).



# CERTIFICATIONS

## CE

All the products of the GP Systems GmbH are CE certified. CE compliance of the products was confirmed by TÜV Nord.

## OPC Foundation

The group is an active member of the OPC Foundation, keeping up-to-date with the changes in the standards. Regul R500 was tested for the full compliance to OPC UA standard in the Foundation's laboratory in Bavaria, Germany.

## Maritime

Regul R500 has been approved for inclusion into the Russian Maritime Register of Shipping, making it an approved PLC for the use on ships. Regul R200 is undergoing approvals.

## ISO

All the processes in the group are certified according to ISO 9001:2008 by DEKRA. Compliance to the ecological standards is provided by certification to ISO 14001:2008.

The group is a member of the following organizations:



# CUSTOMERS

- **FSK UES**, Russia  
Federal Grid Company is the operator and manager of Russia's unified electricity transmission grid system, including high voltage transmission lines.
- **RUSHYDRO**, Russia  
RusHydro is a Russian hydroelectricity company. As of early 2012 it has a capacity of 34.9 gigawatts. It is the world's second-largest hydroelectric power producer and is the country's largest power-generating company and the largest successor to RAO UES. The Company has over 70 renewable energy source plants.
- **BELENERGO**, Belarus  
Belenergo is a federal power generation company of Belorussia, with the installed capacity of 8 700 MW.
- **KEGOC**, Kazakhstan  
The Kazakhstan Electricity Grid Operating Company is a national transmission grid operator of Kazakhstan.
- **AZERENERJI**, Azerbaijan  
Azerenerji is the largest electrical power producer in the Republic of Azerbaijan. It also maintains the largest distribution network in the country, although the regional power networks are being privatized.