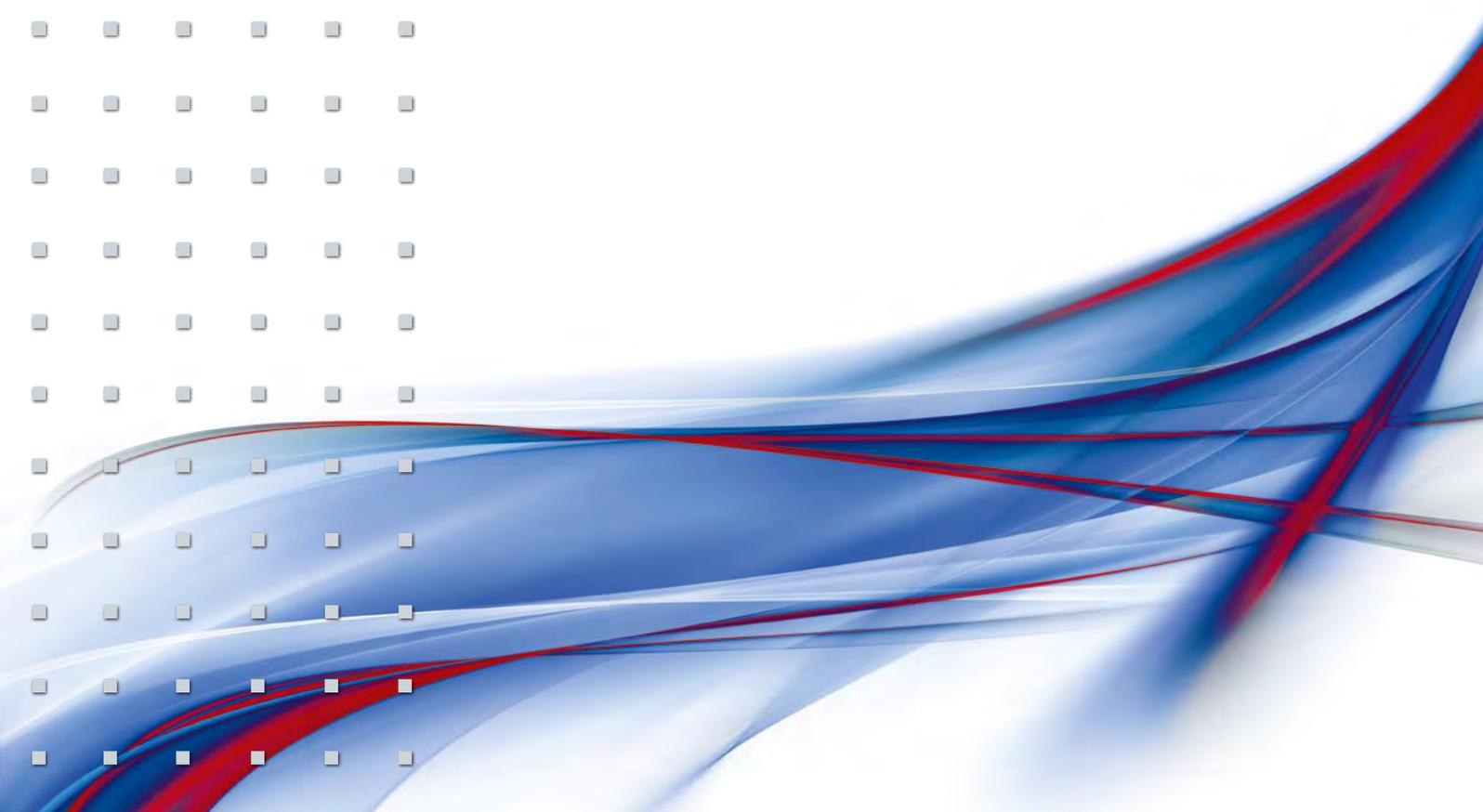
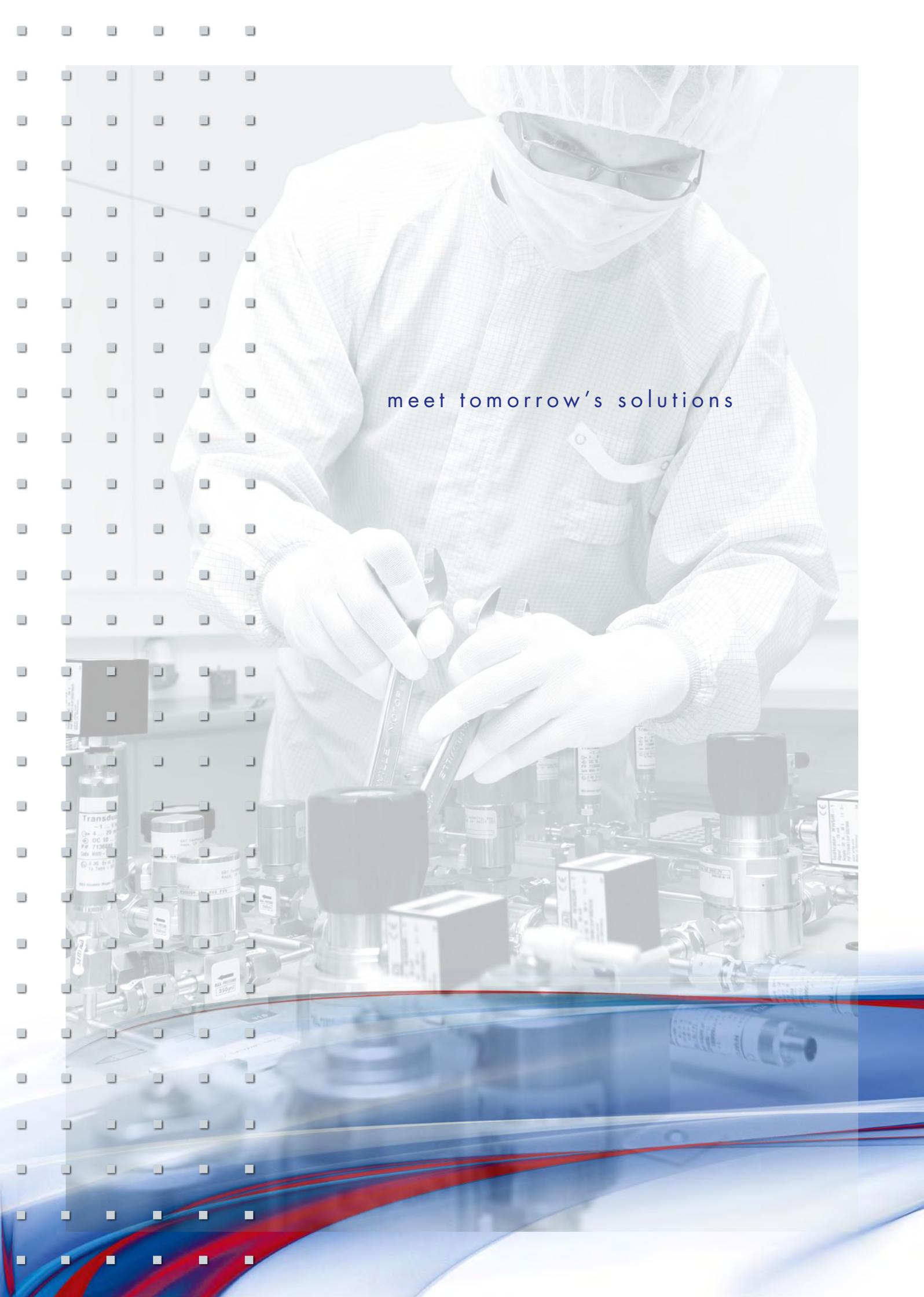




HIGH PERFORMANCE MEDIA SUPPLY SOLUTIONS
MADE IN GERMANY



A person wearing a white cleanroom suit, hairnet, face mask, and safety glasses is working on a complex mechanical assembly. They are using a pair of calipers to measure a component. The assembly consists of various metal parts, including valves and actuators, some with labels like "Transducer" and "VITALE MOTOR". The background is a cleanroom with a perforated metal wall. The image has a blue and red abstract graphic at the bottom.

meet tomorrow's solutions



Professional Engineering



SEMPA SYSTEMS develops, manufactures and distributes high purity media supply systems and turn-key solutions to the semiconductor, photovoltaic, glass fiber and printed electronics industry. From our sites in Dresden and Erfurt and in conjunction with our cooperation partners we serve a global customer base.

Our team consists out of 80 professionals which are dedicated to serve our customers needs.

Our aim is not only to satisfy a customer demand, but to work cooperatively together with our clients identifying challenges and opportunities in advance, hence being an active partner reaching process excellence at our clients. SEMPA`s main mission is our commitment to quality and to realize solutions for tomorrow`s challenges today.

SEMPA is Engineering Partnership



Bulk and Special Gas Distribution Systems

We offer full solutions: From design, engineering, manufacturing to commissioning and operation of equipment:

- Filter stations and piping systems in stainless steel
- Consumption monitoring for gases and liquids
- Quality control for humidity, foreign matter and particles
- Installations for generation of forming gas and other gas mixtures
- Gas bottle stations, VMB, VMP for special gas solutions
- Gas trailer and bundle stations
- Fluorine systems
- Container solutions, "stand alone – application"
- Dosing and mixing of gases
- Hook up installations
- Full automatic control and monitoring of distribution systems
- State of the art welding and testing procedures
- Quality audits with advanced metrology
- Gas detection
- Gas supplies for lab, test and calibration application
- Design, engineering and manufacturing of customized solutions





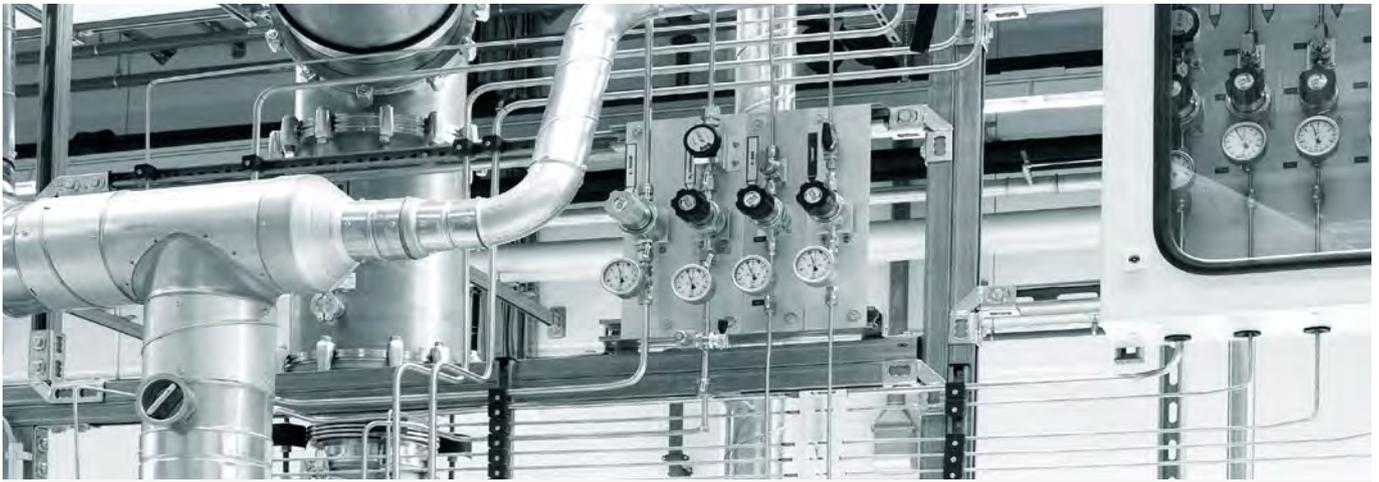
Chemical Supply Systems in Stainless Steel



- Central supply for DEZn, TMAI, TMGa, TBAs, TBP, TEOS, TCS, SiCl₄, POCl₃ and others
- Vaporizer systems for DEZn, TMAI, TMGa and others
- Chemical distribution cabinets and manifold boxes
- Recipe preparation, mixing and central supply of slurry
- Piping systems in stainless steel
- Implementation of process technology cycles
- Fluid flow control
- Water and wastewater systems for the photovoltaics industry are realized with cooperation partners
- Customized solutions
- Quality audits and FDA-compliant documentation
- Hook up installations



A chain is only as strong as its weakest link.



Process Vacuum and Exhaust Systems

- Piping and customized designs up to 800 mm diameter
- Process pump and abatement hook up
- Prefabrication of entire component groups
- Pressure testing and leak detection
- Fuel gas systems for abatements
- Lifting stations and abatement wastewater treatment
- Solutions for particle and moisture precipitates

Attention to detail will pay dividends



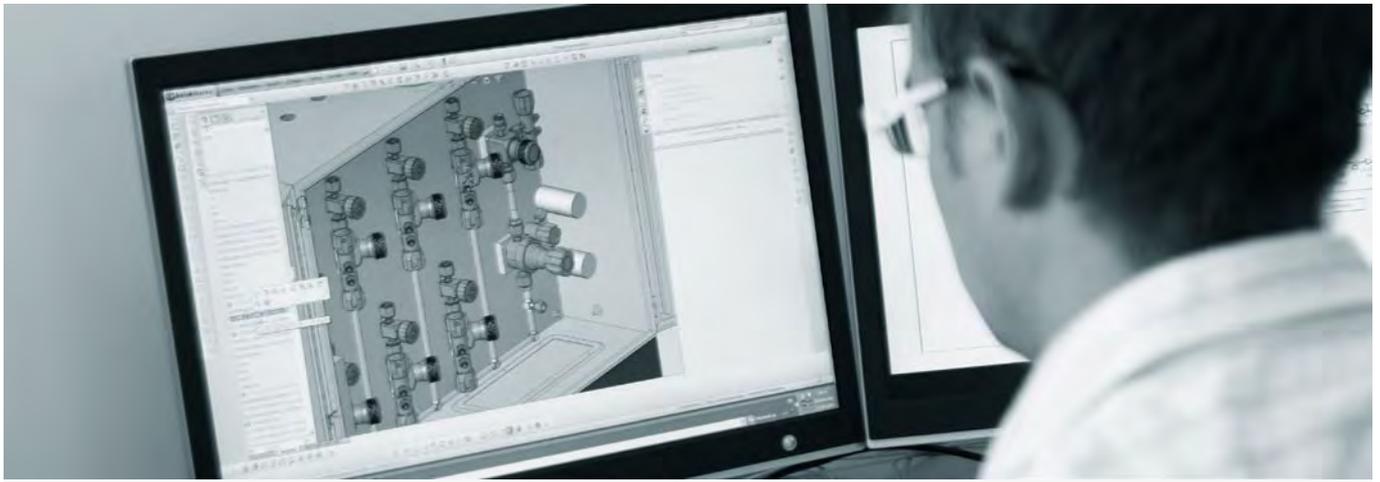


Service and Operation of Equipment



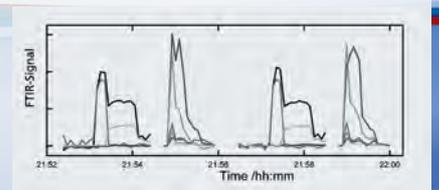
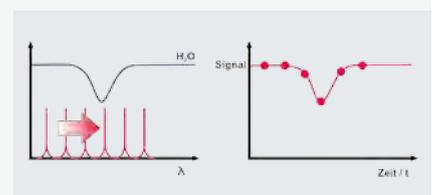
- 24h on-call duty
- Exchange of cylinders and bundles for gases and chemicals
- System check-up and operation
- Maintenance and inspection
- Repair and service
- Maintenance of gas detection systems including pumps and peripherals
- Safety concepts and audits
- Compilation of operating procedures
- Quality inspection using advanced metrology





Engineering and Design

- Solutions for process optimization through advanced process technology
- Development of FTIR and laser spectroscopy based sensor systems for process optimization in cooperation with research institutes and universities
- HiBarSens: Water Vapor Permeation measurement of ultra barrier materials in the range of (WVTR) $\sim 10^{-6}$ g [H₂O] m⁻² d⁻¹
- Safety concepts and system analysis
- Dimensioning and optimization of systems
- Design and technical documentation based on Auto CAD and Solid Works
- Development of operation manuals



Our products and services aim to achieve the highest levels of quality and reliability.



Company



Dresden is not only famous as a centre of art, culture and history, but also as area for industry and technology. Strategically located in the heart of Europe with excellent infrastructure Dresden provides an ideal ground for us as high-tech company.

We do serve a global customer base through our loactions in Dresden and Erfurt and via our coope-
ration partners in Asia.

Our mission is to continuously introduce innovative solutions for tomorrow's challenges today and our stringent commitment to quality. Our clear customer focus leads to a fast, reliable and commercially attractive project execution.





Certification

Our total quality management is a prerequisite to meet all of our clients requirements and to ensure full alignment with the technical specifications.

We hold the following certificates:

- Certification according ISO 9001-2011
- Certification as manufacturer to AD-Merkblatt HP 0 / HP 100R
- Certification according DIN EN ISO 3834-3 to fulfil the quality requirements of welding technology
- Certification according Wasserhaushaltsgesetz (WHG)
- Certification according DVGW-TRGI 2008
- Certification according DVGW-drinking water

We are totally committed to satisfy our customer's needs through our products and services.

USA



Central supplies for DEZn

Netherlands



Eindhoven



Central supplies for DEZn

Finland



Helsinki



Gas systems and installation

Belaruss



Minsk



Gas systems and installation

Russia



Moscow, Kaliningrad



SEMICON Russia 2010, Gas systems

China



Peking



Central supplies for DEZn

Japan



Tokio



Permeation measurement system „HiBarSens“

Spain



Madrid



NH₃ and SiH₄ systems

Swiss



Bern



Gas boxes for pharmaceutical industry

Italy



Milan



Central supplies for TCS

Austria



Villach, Salzburg, Güssing



Installation ozone

Turkey



Ankara



Installation AG

India



New Delhi



NH₃ and SiH₄ systems

Taiwan



Taipei



Central supplies for DEZn



Dresden · Erfurt

Highest Purity Media Supply Systems - worldwide
Made in Germany

Competence obliges - continuity connects



SEMPA SYSTEMS GmbH

Zur Wetterwarte 50, Haus 301
01109 Dresden
Germany
Telephone: +49 351 888 10 0
Fax: +49 351 888 10 15
e-mail: info@sempa.de



SEMPA ASIA GmbH

Zur Wetterwarte 50, Haus 301
01109 Dresden
Germany
Telephone: +49 351 888 10 0
Fax: +49 351 888 10 15
e-mail: asia@sempa.de

www.sempa.de

