



Technology for Environmental Protection

Measuring. Controlling. Monitoring.



AFRISO management (from left to right):
Dipl.-Ing. (FH) Günther Blasinger, Matthias Blasinger,
Jürgen Fritz, Dipl.-VW Elmar Fritz, Dr. Ing. Ulrich Aldinger

More than 140 years of AFRISO – inspiration from tradition.

When sustainability broadens horizons

Adalbert Fritz bestowed not only his name on our company, but also the fundamental principles of its mission today: responsibility and social competence. Today, even after more than 140 years, this still sets the standard and drives the company's entrepreneurial activities as it moves towards the future. The people involved and their needs and competencies are the focus.

In a family-run business, the value of a handshake still applies in a figurative sense, and this is something everyone can count on – employees, suppliers and customers. Our wide range of components, systems and services as well as the use of state-of-the-art production technology ensure market-orientated product policies and service quality. This, in addition to the motivation and competence of our staff, puts us in a position

in which we can offer our market partners competitively priced series products as well as customised solutions and unconventional ideas.

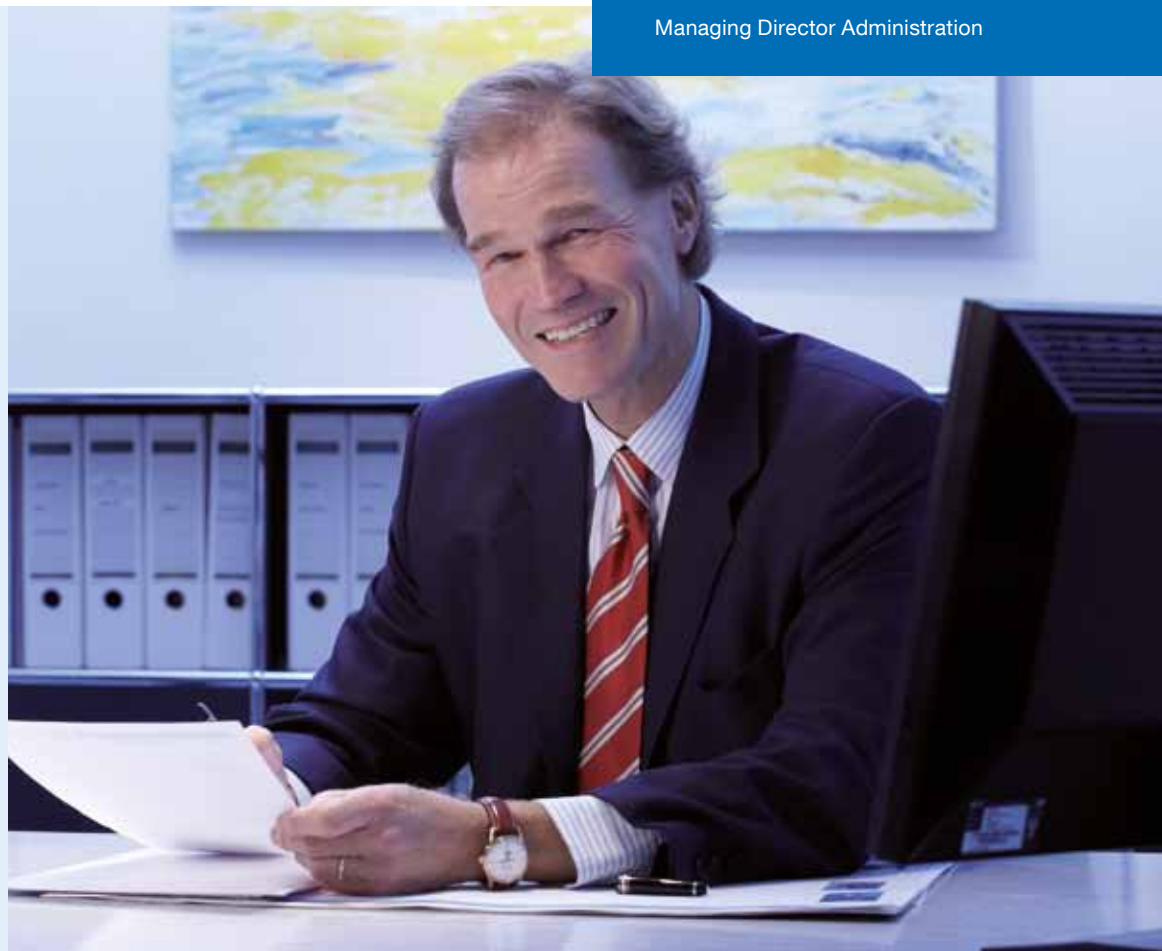
The care and protection of our environment are always a top priority in the development and production of new products. And this was the case long before terms such as “energy efficiency” and “environmental protection” became commonplace. All of the processes in the company are aligned with environmental compatibility and many of our products help protect the environment. Our motto “Technology for Environmental Protection” has long been an inherent part of our product range. And will continue to serve as the basis of our activities in the future.



»» We fit the common conception
of a **family business** in the best sense.
Thinking and **planning** are
for the **long term**. ««

Elmar Fritz

Managing Director Administration



The heart of our brand: Reliability, flexibility and independence.

What we stand for

AFRISO monitors, controls and protects the elements fire, water, earth and air – in the broadest sense. On the one hand, these elements symbolically stand for the relief and protection of the environment – and on the other, they illustrate our fields of activity:

- Flue gas control
- Energy savings
- Groundwater protection
- Resource protection

Product development revolves around our motto “Technology for Environmental Protection”. We strive to improve the environment, to make processes which work with greater environmental compatibility and to avoid putting a strain on the environment. With a balanced portfolio of innovations, proven products, systems and services, we offer our customers efficient solutions which are of great benefit.

Although we serve an extremely wide variety of markets and industries, all AFRISO employees work according to the same values. Reliability, flexibility and independence are the basis of our day-to-day work.



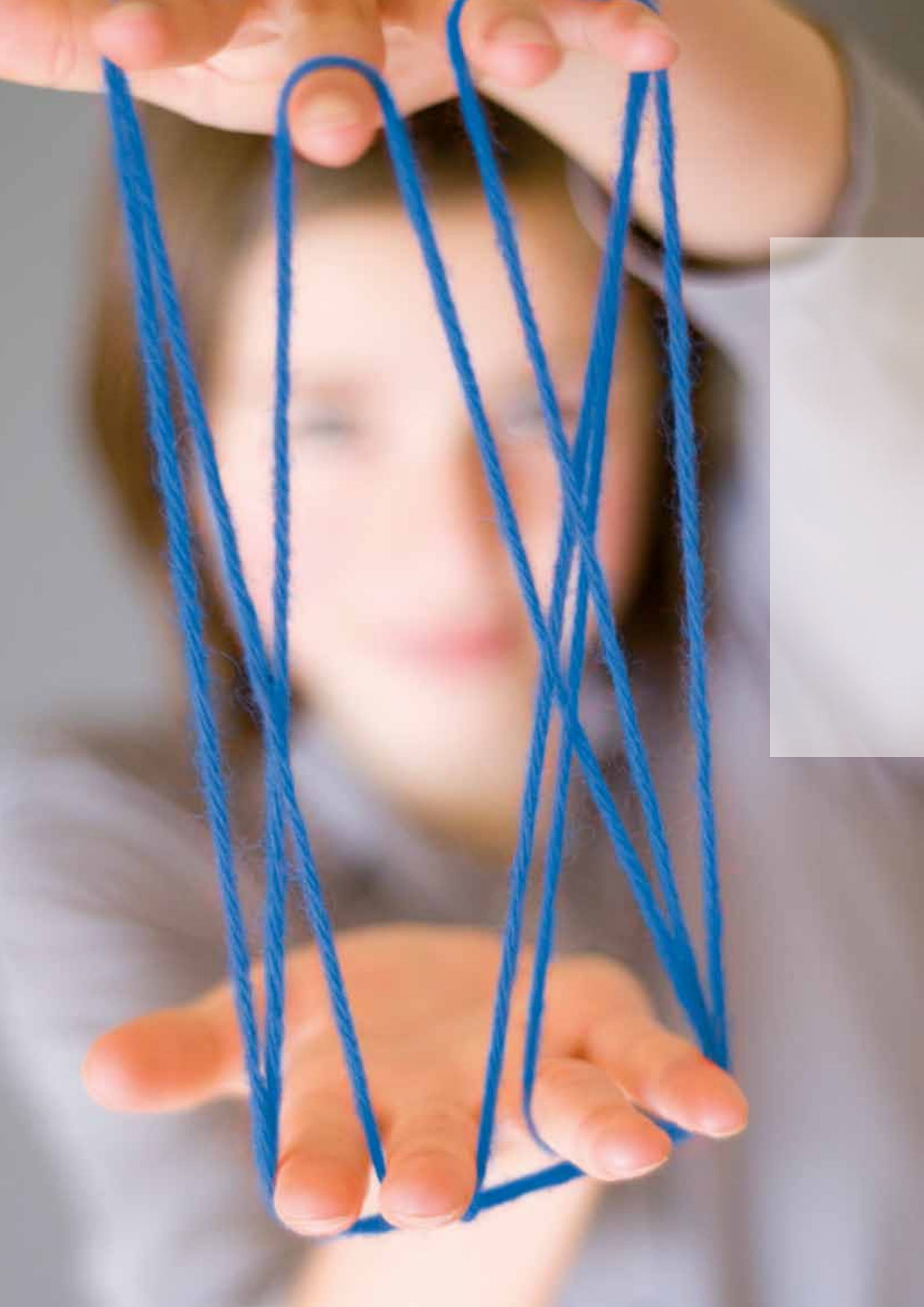
Our corporate culture is marked by a sense of responsibility. We want our employees to be content here with us. The “Beruf und Familie” (“Career and Family”) certificate and the occupational health and safety management system implemented in 2009 help us show this to the outside world.

We offer quality and reliability throughout the entire process: from meeting all pertinent quality standards and ongoing quality, environmental and occupational health and safety management all the way to continuity in our cooperation with customers and suppliers.

In addition, we are independent and flexible as a result of our high degree of vertical integration and production facilities in different economic areas. The only constraint we impose on ourselves is to be close to the market and the customer.







»» Going against the general trend, we achieve an extraordinary **degree of vertical integration**.

With attention paid to robust processes, this makes us **fast, flexible and independent**. ««

Jürgen Fritz

Managing Director Production



When “no-go” is no more.

We rise to every challenge

Thinking proactively, thinking forward, being creative. This all goes without saying for the AFRISO team. The team comes up with possible solutions to “impossible” challenges in a way which is flexible, cost-aware, on schedule and fast yet careful.

Efficient project management, state-of-the-art production processes and quality policies that work guarantee top-notch process reliability.

Tool and equipment making

The core of our flexibility. Development and design of the finished product as well as tool and equipment making are concentrated in a single department and can consequently be optimally aligned with one another. This allows us to create new developments, special designs and customised products rapidly and in a highly cost-effective way.

Production

A high degree of vertical integration enables maximum flexibility and allows us to optimally meet customer requirements. Variable manufacturing structures allow to efficiently produce a large range of lot sizes. Manual, semi-automatic or fully automatic – in the production of AFRISO quality products we use every opportunity to obtain the best results. All production processes are optimised on an ongoing basis and are subject to all pertinent quality standards.

The production processes

- Plastic injection moulding
- Red brass
- Punching and deep drawing
- SMD board assembly
- Electronic production
- Cable and hose assembly
- CNC machining
- Turning, milling and drilling
- Standard and special cleaning
- Soldering
- GTAW, orbital and laser welding
- Labelling and printing
- Foil/film processing for leak detection linings
- Filling of diaphragm seal systems

Areas of expertise

- Mechanical
- Electrotechnical
- Electronics
- Microprocessor technology
- Tools/equipment
- Series products
- Custom solutions





»» A wide range of products ensures
that we remain independent
of market fluctuations and enables us to be
a strong partner for our customers. ««

Günther Blasinger
Managing Director from 1971 to 2009



Appropriate, convincing solutions for a wide variety of applications.

We know your industry

AFRISO is at home wherever there is measuring, controlling or monitoring required. As a full-range manufacturer, we offer our customers a broad product portfolio from a single source. A wealth of experience from numerous ap-

plications as well as our knowledge of the requirements in the individual markets make us a reliable partner in your industry. We know what is necessary as a result of our many years as a supplier in the OEM business and

Building technology



The subject of saving energy has been our focus for almost 40 years. From the start, we have supported the move towards geothermal and solar systems as well as the use of biogenous fuels by supplying professional components and assemblies.

Our range for the secure storage of fuel oil and professional equipment for heating systems reduces operat-

ing costs, helps make optimum use of fuels, provides timely warnings if hazardous situations arise and constitutes an active contribution to environmental protection. Innovative measuring devices for flue gas analysis yield high-precision and reproducible results so that your customers can achieve their goals: the right amount of heat at the right time, low energy consumption and low emissions.

Target markets

- Manufacturers of burners and boilers
- Manufacturers of solar systems
- Manufacturers of floor heating systems
- Tank protection/revision
- Heating and plumbing system wholesalers
- Technical trade/electrical wholesalers
- Engineering and planning consultancies
- Manufacturers of fittings
- Chimney sweeps
- Public institutions, municipalities

our intensive contact with standardisation committees, associations and guilds. We tap our employees' know-how and expertise in the industry to make our customers' processes simpler, safer and more competitive. In

process technology, in building technology or facilities – you benefit with a strong partner at your side.

Process technology



Reliability, precision and a long service life are crucial when it comes to highly automated processes. Our robust measuring devices deliver perfect measuring results and reliably exchange, monitor and control simple or complex processes – even under extreme conditions.

AFRISO solutions meet strict directives and standards. Certificates for food-quality materials, explosion protection and resistance to media and temperatures attest to this.

AFRISO products meet the requirements

- A wide variety of process connections
- A large selection of materials
- Compact designs
- Hygienic and easy-to-clean
- FDA-listed materials
- Silicone-free versions
- Resistant to aggressive and abrasive media
- High overload safety
- Resistant to vibration and temperature

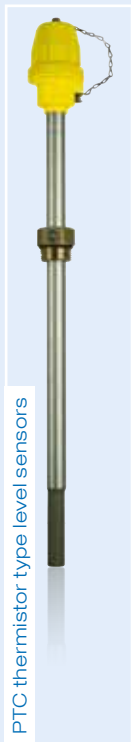
Target markets

- Machines and plants
- Tanks
- Food and beverages industry
- Chemical industry
- Pharmaceutical industry
- Cosmetics industry
- Biotechnology
- Refineries
- Offshore industry
- Mineral oil industry
- Raw materials industry
- Hydraulic and pneumatics (fluid technology)
- Medical technology, security technology
- Energy production

Water filters



PTC thermistor type level sensors



Fuel oil de-aerators



Solar pump groups



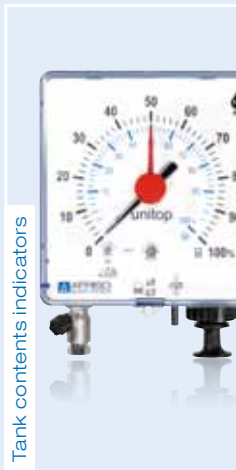
Distribution systems



Alarm devices / Leak detectors



Tank contents indicators



Hydraulic balancing



Tanks. Heating. Environmental Protection.

The slogan “Making Heating Systems Safe” is backed by a wide range of products for building technology. Irrespective of whether the heating system uses regenerative energy or fossil fuels.

This extensive portfolio also includes a large selection of alarm devices for fast detection of levels, accumulations of liquids, leaks, gases or smoke.

- Mechanical and pneumatic level indicators
- Overfill alarm systems/level controllers
- Leak indicators/leak monitoring systems
- Inner tank linings
- Equipment for fuel oil tanks, oil pipes, heating rooms, heating boilers and systems
- Distribution systems for heating, cooling and geothermal systems
- Equipment for drinking water supply
- Valves and fittings for hydraulic balancing
- Heating controllers
- Rainwater harvesting

Complete range – unbe

Piston type diaphragm seals



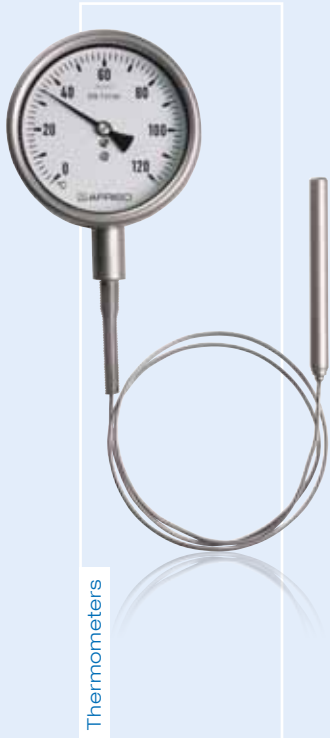
Digital pressure gauges



Level indicators and controllers



Thermometers



Pressure transducer



Diaphragm seals



Gas density monitors



Pressure gauges



Pressure. Temperature. Level.

In addition to our comprehensive range of mechanical and electronic pressure, temperature and level instruments, we also offer suitable mounting and installation accessories as well as display, control and evaluation devices.

AFRISO measuring instruments cover the following ranges:

Pressure: 0/2.5 mbar to 0/4000 bar

Temperature: -50 °C to +1200 °C

Level: 0/20 cm to 0/100 m

- Pressure gauges
- Accessories for pressure gauges
- Diaphragm seals
- Pressure transducers
- Bimetal thermometers and gas-filled thermometers
- Thermostats
- Resistance thermometers
- Electronic tank contents gauges
- Display and control devices
- Event reporting systems/communication systems

stable performance



Stationary gas analysis



Measuring devices for flue gas analysis



Measuring devices for pressure/temperature

Gas analysis

The BlueLine series is the perfect solution for official measurements, adjustment, servicing, maintenance and repair work. You benefit from an optimally tuned range of measuring instruments which is continuously setting new standards – from basic devices all the way to portable all-in-one flue gas analysers.

AFRISO supports solutions to environmental challenges with analysers, gas withdrawal probes and turn-key analysis systems for the continuous measurement of gaseous emissions.

- Portable gas analysers
- Portable measuring instruments, analysers and test equipment
- Gas and smoke alarms
- Stationary gas analysis systems
- Emission measurement technology
- Measurement data acquisition systems

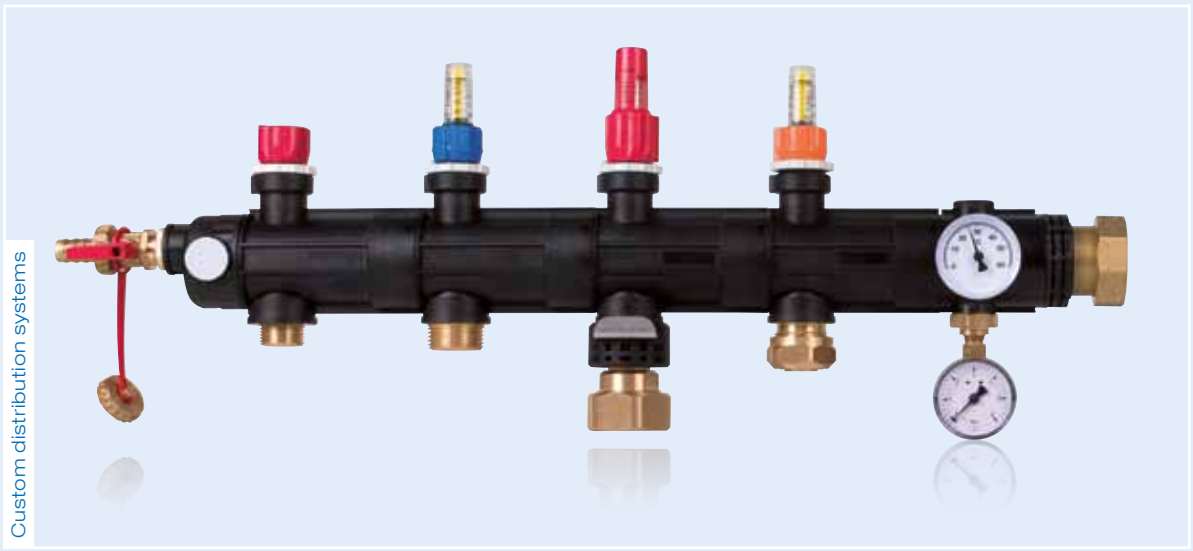
Customer-specific fittings



Complex assemblies made of plastic



Custom distribution systems



Special designs and system solutions

In addition to this comprehensive range of standardised, proven off-the-shelf products, we also offer customised special products made exactly to your requirements. We are constantly setting new standards with innovative concepts, e.g. using plastic fittings instead of metal ones or a combination of plastic and brass materials in complex assemblies. The range for the measured parameters of pressure, temperature and level not only covers the delivery of individual sensors, but also includes suitable components for power supply and evaluation of the measurement signals. In the case of system solutions, we do the entire engineering for you, all the way to the production of the finished system.

Adapted to your specific requirements

- Housing geometry
- Shape and colour
- Mechanical or electrical connections
- Pre-assembled, tested, ready-to-connect assemblies



»» For us, **globalisation** is an opportunity
to market our **brand products** –
manufactured in Germany and Europe –
on a **global scale**. ««

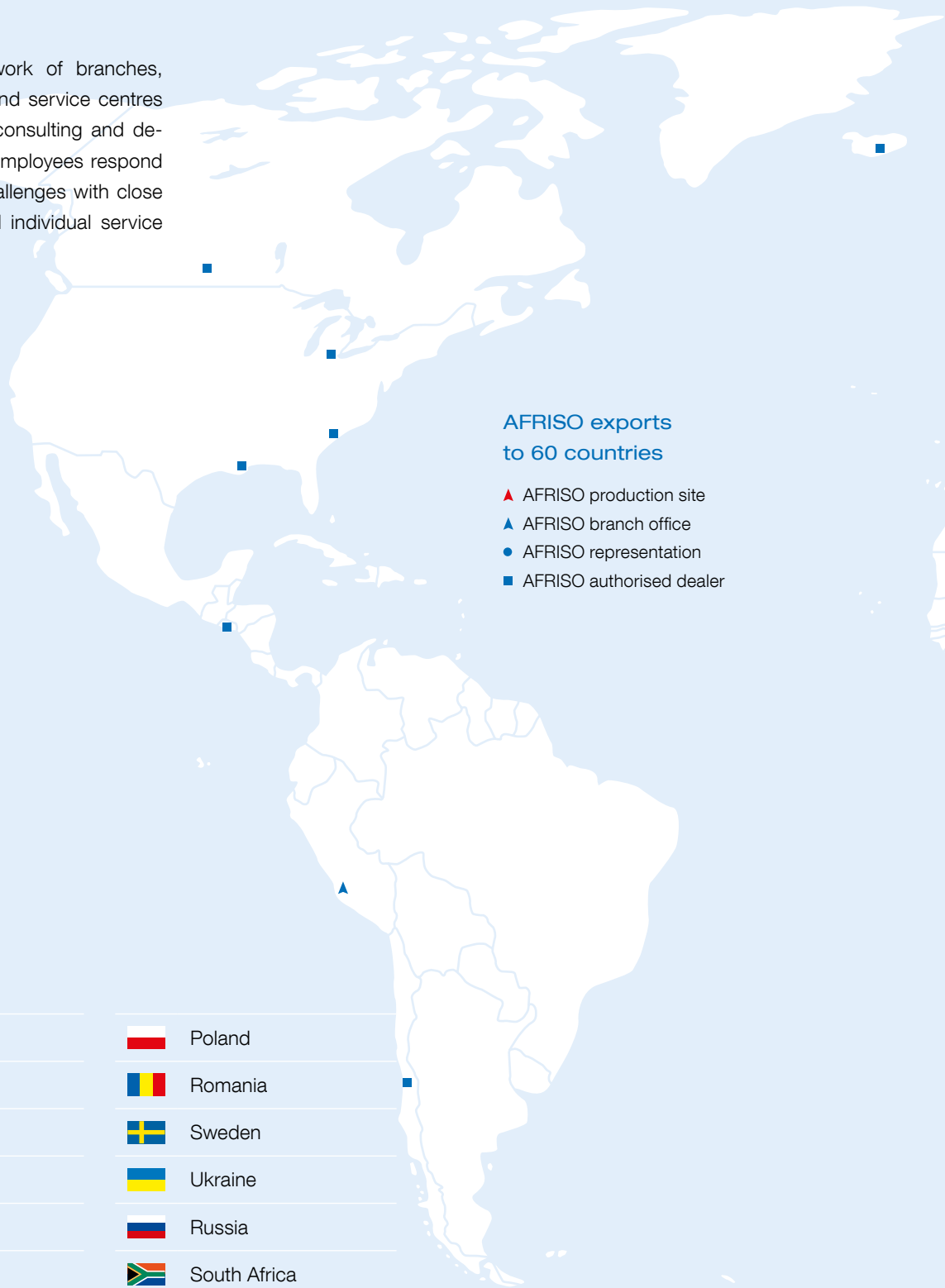
Matthias Blasinger
Managing Director Sales



Close, direct customer contact as a result of consistent, international alignment.

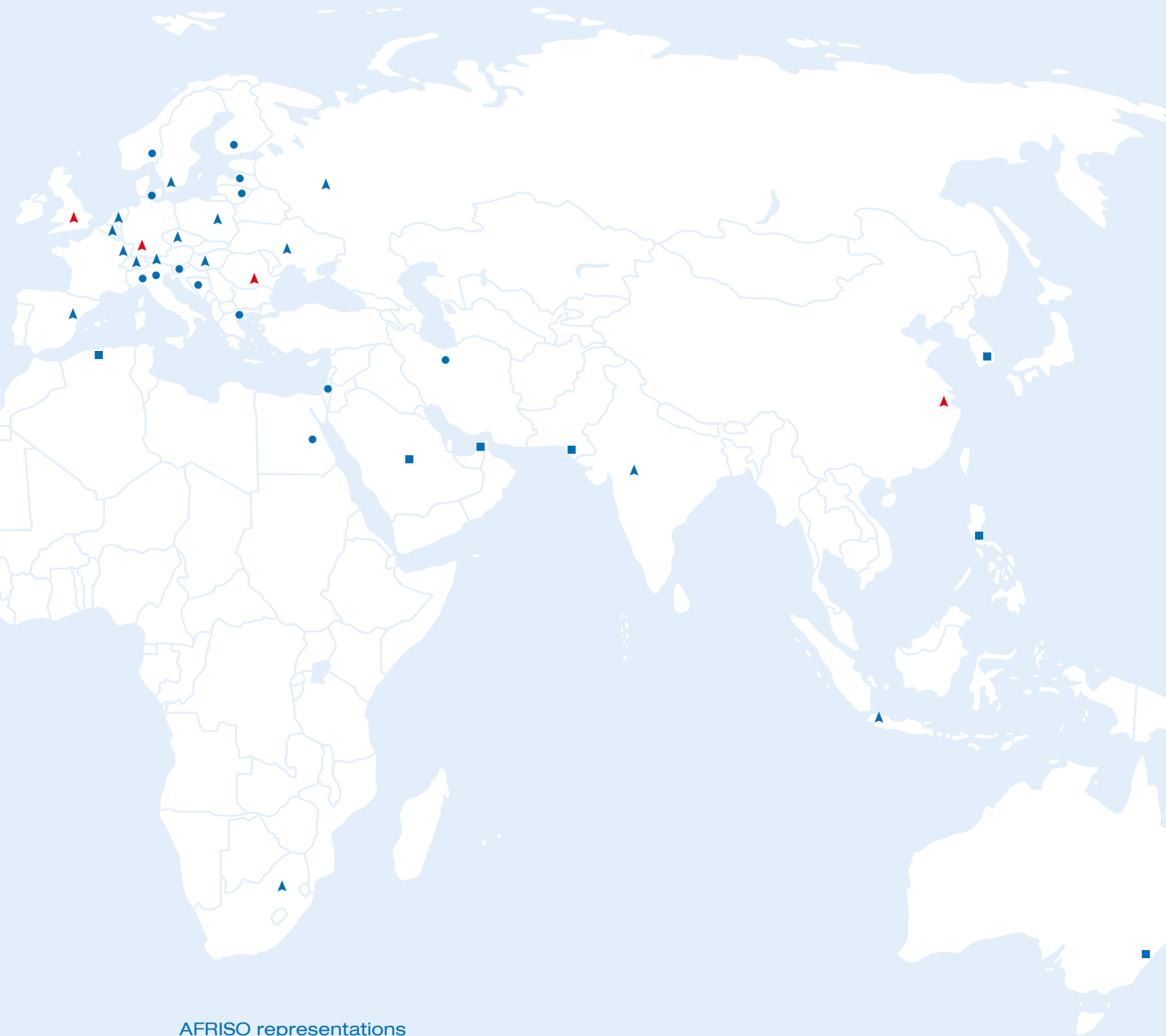
On site worldwide for you

A tightly woven network of branches, distribution partners and service centres guarantees optimum consulting and delivery. 1,000 AFRISO employees respond to country-specific challenges with close customer contact and individual service on site – worldwide!





AFRISO Group


 Germany	 Poland
 France	 Romania
 Great Britain	 Sweden
 Belgium	 Ukraine
 Netherlands	 Russia
 Switzerland	 South Africa
 Austria	 China
 Spain	 Indonesia
 Hungary	 India
 Czech Republic	 Peru



AFRISO representations


 Norway


 Finland

 Denmark

 Lithuania

 Italy

 Slovenia

 Bosnia and Herzegovina

 Iran


 Egypt


 Israel

 Peru

AFRISO production sites

 Germany

 Great Britain

 Romania

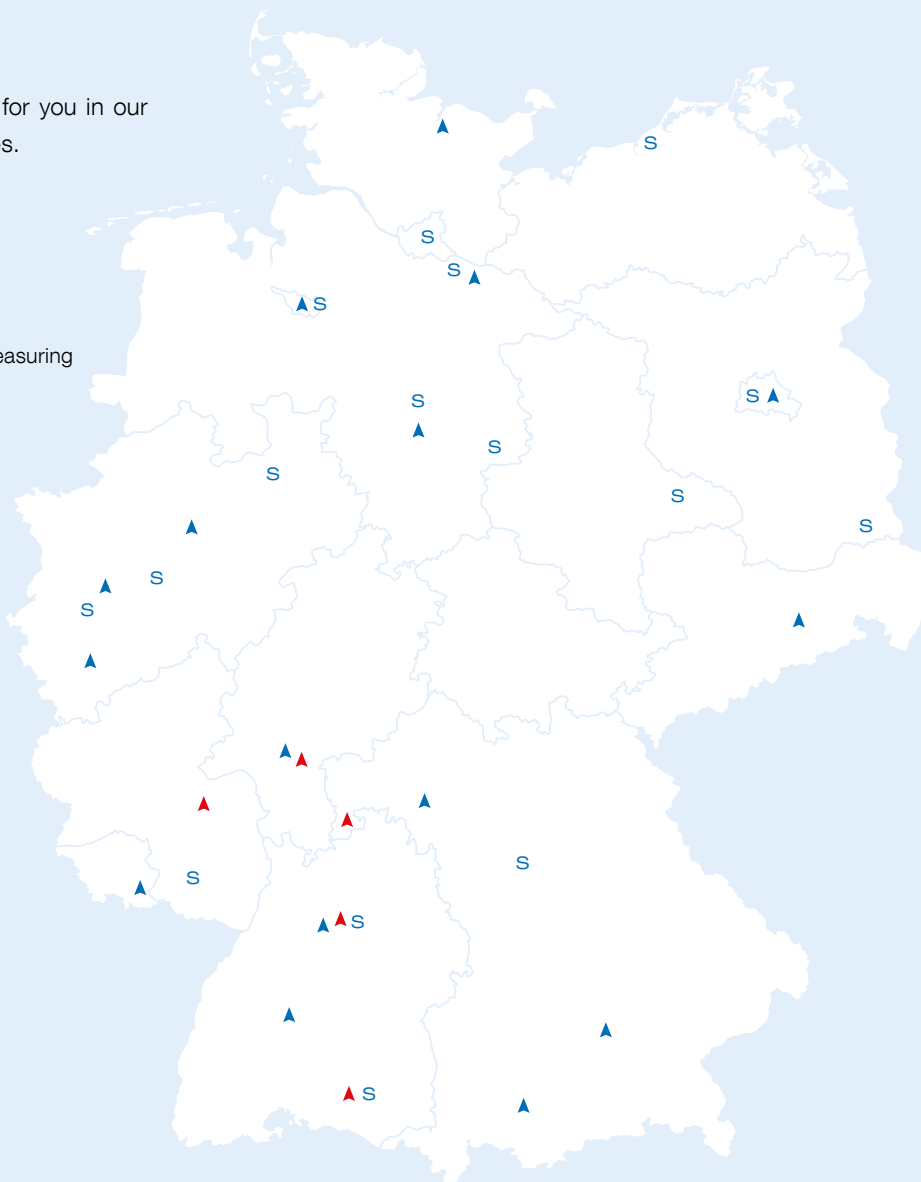
 China

AFRISO support centres – close by, guaranteed.

Sites in Germany

A staff of 500 are at work for you in our five German production sites.

- ▲ AFRISO production site
- ▲ AFRISO sales office
- S AFRISO service point for measuring and analysis devices



We ensure that you get professional, personal service

With a staff of more than 80 field and internal experts! Please visit www.afriso.de/contact for further information on your specific contact person.

Stocks and logistics

Maximum availability, short delivery times. Our range comprises more than 25,000 different products. More than 2,000 of them are on stock. A total of more than 750,000 individual devices and instruments are available ex stock.



AFRISO production sites in Germany



Headquarters

AFRISO-EURO-INDEX GmbH
Lindenstr. 20
74363 Göglingen
Baden-Württemberg



Plant Amorbach

AFRISO-EURO-INDEX GmbH
Friedhofstr. 3
63916 Amorbach
Odenwald/Bavaria



Plant Dietzenbach

AFRISO-EURO-INDEX GmbH
Waldstr. 23 / Hall C4
63128 Dietzenbach
Hessen



Plant Illmensee

Systronik GmbH
Gewerbestr. 57
88636 Illmensee
Lake Constance/Baden-Württemberg



Plant Alsenz

Gampper GmbH
Niedermoscheler Str. 2
67821 Alsenz
Rhineland-Palatinate



»» A good **quality management** system is the result of **ongoing improvement**.

Every employee sustainably secures, designs and improves on our high level of **product and service quality**. ««

Dr. Ulrich Aldinger
Managing Director Technology



The guarantee for high-quality products.

AFRISO quality

At AFRISO, quality is systematically planned and, at every stage of product development and production, managed and monitored. This is attested to by national and international approvals and certificates. Quality Assurance as per ISO 9001:2000 and environmental management in accordance with ISO 14001 are a matter of course for us and implemented in every process.

Development and engineering

Each new development is meticulously engineered, developed, documented and tested. The standard version according to applicable norms and legal directives. In the case of special versions, precisely as per the customer's specifications and always using state-of-the-art technology.



The certified quality and environmental management systems guarantee security for people, processes and the environment.





A wide variety of approvals and certificates. Stringent testing by national and international approval bodies ensure maximum reliability. The labels shown apply only to specific AFRISO products.



AFRISO service.

Our service – your benefit

Flexible, cost-aware, on schedule, solution-oriented and fast – the AFRISO team always provides the decisive added value. Get in touch with us. We look forward to you.

Consulting and presentation

Support either by phone or right at the customer's site. Our consultants speak your language – we provide you with personal and individual consulting worldwide.

Training

Professional and practical. With our training courses, you benefit from our many years of in-depth experience in the field of measuring and control technology. Our training offering responds to current issues and standards as well as customer requirements.

Visit us at www.afriso.de/training for our full training programme.



Service

Whether commissioning, professional maintenance, calibration or function checks – a network of service centres and our specialists support you and ensure full operability of your AFRISO product. For secure processes, precise measuring results, compliance with legal requirements and a long service life.

Repairs

In the case of a malfunction, send us your product along with a short description of the problem. We will repair it within five workdays. Promise.

Rental service

You cannot afford to do without your hand-held instrument? No problem, our on-site service ensures that you remain on duty. We have your instrument picked up and send you a rental instrument. All over Germany. For a low rental fee.



AFRISO milestones

Adalbert Fritz founded the company in Schmiedefeld/Thuringia in 1869. When his son Franz Fritz entered the company, the company name changed to "Adalbert Fritz & Sohn", or, in short, AFRISO. This name now represents

a renowned brand for temperature and pressure measurement and the company is still a family-owned business. The owners, Elmar and Jürgen Fritz, are the fourth generation to lead the company.



Company founded by Adalbert Fritz. Production of glass thermometers, glass instruments and laboratory equipment.



Rebuilding of the company in Kleingartach and Güglingen/Württemberg by Franz Fritz and son Georg Fritz.

Founding of sales and production companies in Western Europe. AFRISO renamed AFRISO-EURO-INDEX.

The future lies in the economical and environmentally compatible operation of heating systems. AFRISO launches a broad product portfolio on the market.

1869

1920

1950

1955

1960

1972

1974

A new era begins: Production of capsule elements as the basis for precision pressure gauges, blood pressure measurement devices and temperature controllers.



Market launch: Level gauges for fuel oil tanks. This is followed by overfill alarms and leak monitoring systems for the safe storage of mineral oil products.



Market launch of the first portable electronic flue gas analyser





Integration of SYSTRONIK into the corporate group. Measuring devices for the industry and the environment are combined in a new division.

Market launch: Product portfolio for solar thermal systems.



Future-orientated: The Stationary Gas Analysis division engineers and implements system solutions for emission data acquisition.



Internationalisation: Founding of subsidiaries in Eastern Europe and Russia.

1981 1994 1996 2006 2008 2009 2011

Market launch of the first compact distributor made of plastic.



Founding of subsidiaries in South Africa, China, Indonesia, India and South America.



Innovation: AFRISO presents the EUROLYZER ST, the first all-in-one flue gas analyser.

Market launch: Product range for hydraulic balancing.



Into the future with a sense of responsibility and independence.

AFRISO profile

A total of 1,000 employees are at work for you worldwide. More than 500 at the five sites in Germany. We respond to current market requirements with a broad product

portfolio, complex special products and complete system solutions in addition to being a reliable partner to craftspeople, commerce, OEMs and the industry.

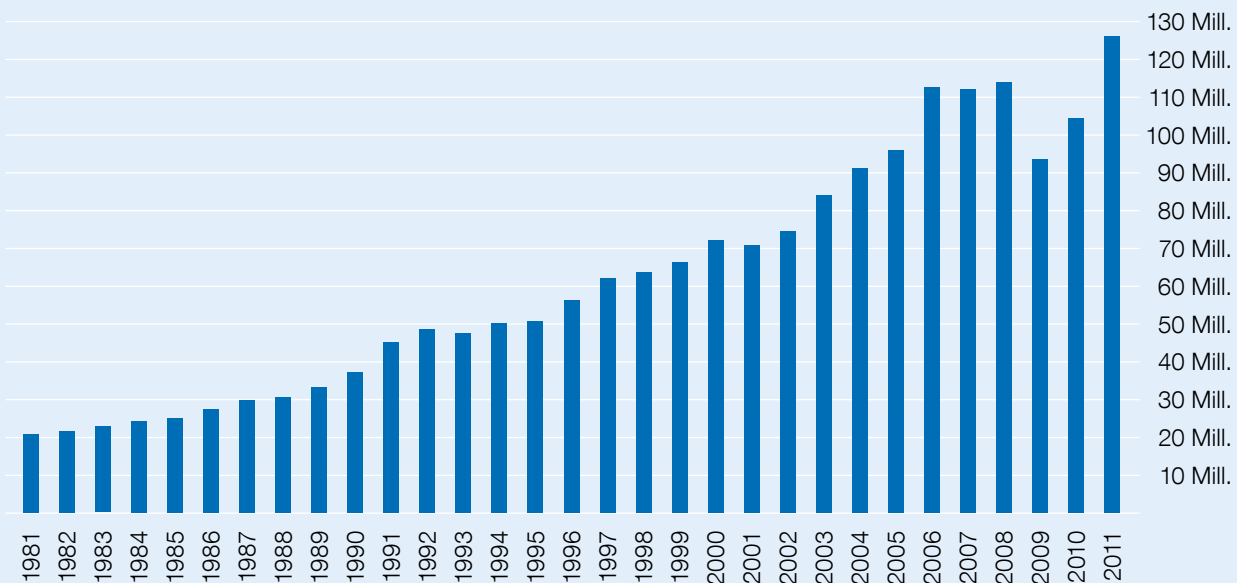
Company data:

- Industry: Measuring and control technology
- Founding year: 1869
- Legal form: Limited liability company, owned and managed by family, independent of corporate group
- Place of business: Güglingen
- Equity ratio: >50 %
- Branches: 20
- Export to 60 countries
- Staff: 1,000 worldwide, 500 in Germany
- Production sites Güglingen, Amorbach, Dietzenbach, Illmensee, Alsenz (all Germany), Crawley (UK), Bucharest (Romania), Suzhou (China)

Portfolio:

- Measuring, control and monitoring technology for domestic, industrial and environmental applications
- Competitively priced, proven series products
- Special custom products
- System solutions in the field of gas analysis
- Research and development
- Production
- Consulting and engineering
- Delivery
- Commissioning
- Training
- After Sales

AFRISO group sales



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