

# 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 145 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 145 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** to a T.  
**Thinking** and **planning** are  
for the **long term**. <<

Elmar Fritz

Managing Director Administration



## 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
- Conservation of resources

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. Numerous offers for ensuring an optimum work/life balance and continuous optimisation measures within the framework of the occupational health and safety management system help us show this to the outside world.

We offer quality and reliability throughout the entire process: From meeting all pertinent quality standards as well as 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.

## Tools 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.

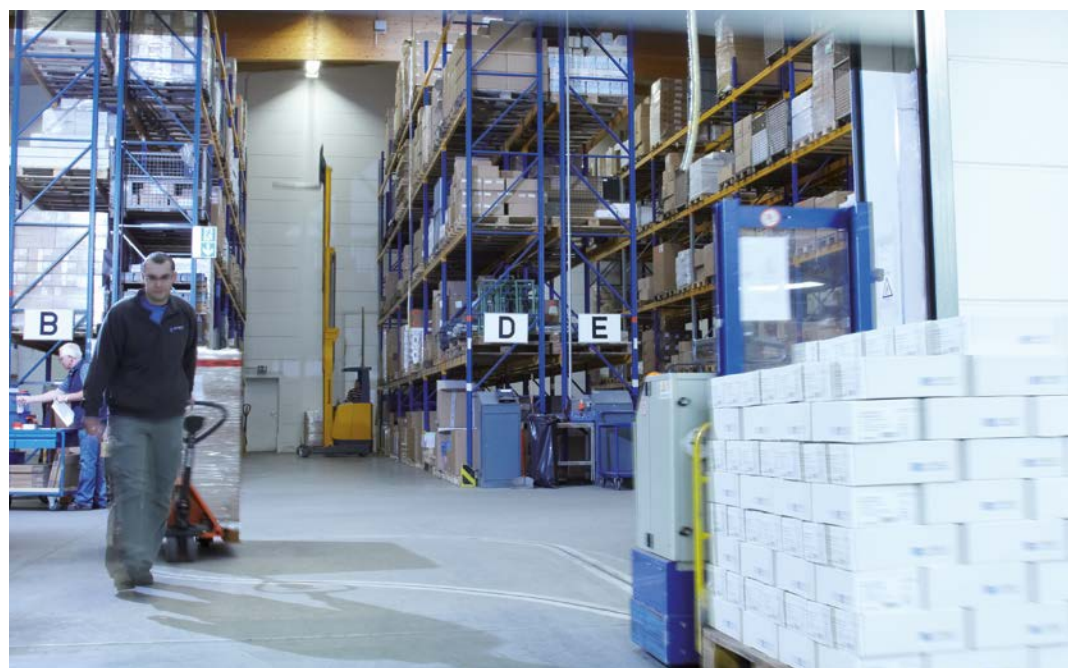
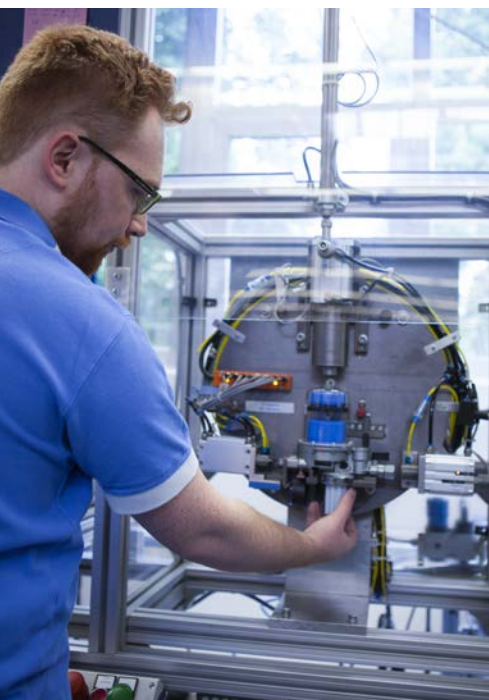
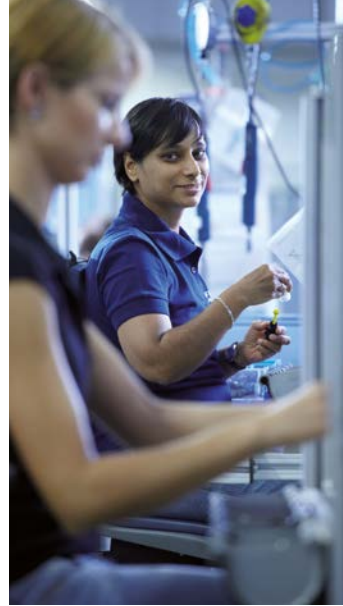
## The production processes

- Plastic injection moulding
- Gunmetal
- Punching and deep drawing
- SMD technology
- Electronics 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 chemical seal systems

## Areas of expertise

- Mechanical
- Electrotechnical
- Electronics
- Microprocessor technology
- App development/software programming
- Tools/equipment
- Series products
- Custom solutions









>> A broad product portfolio 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



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 more than 45 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 operating costs, helps make optimum use of fuels, provides timely warnings if hazardous situations arise and constitutes

an active contribution to environmental protection. Innovative measuring instruments 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. And we always respond to sustainable new technologies, for example, by providing compelling sensors and systems for increasing security and convenience in smart homes.

### Target markets

- Manufacturers of heat generators
- Manufacturers of solar thermal systems
- System suppliers of panel heating systems
- Tank protection/revision
- Tank manufacturers
- Heating and plumbing system wholesalers
- Electrical wholesalers
- Engineering and planning consultancies
- Smart home and building automation
- 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 custom-

ers' processes simpler, safer and more competitive. In process engineering, 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 measurement results and reliably monitor and control simple to highly complex processes – even under the most adverse con-

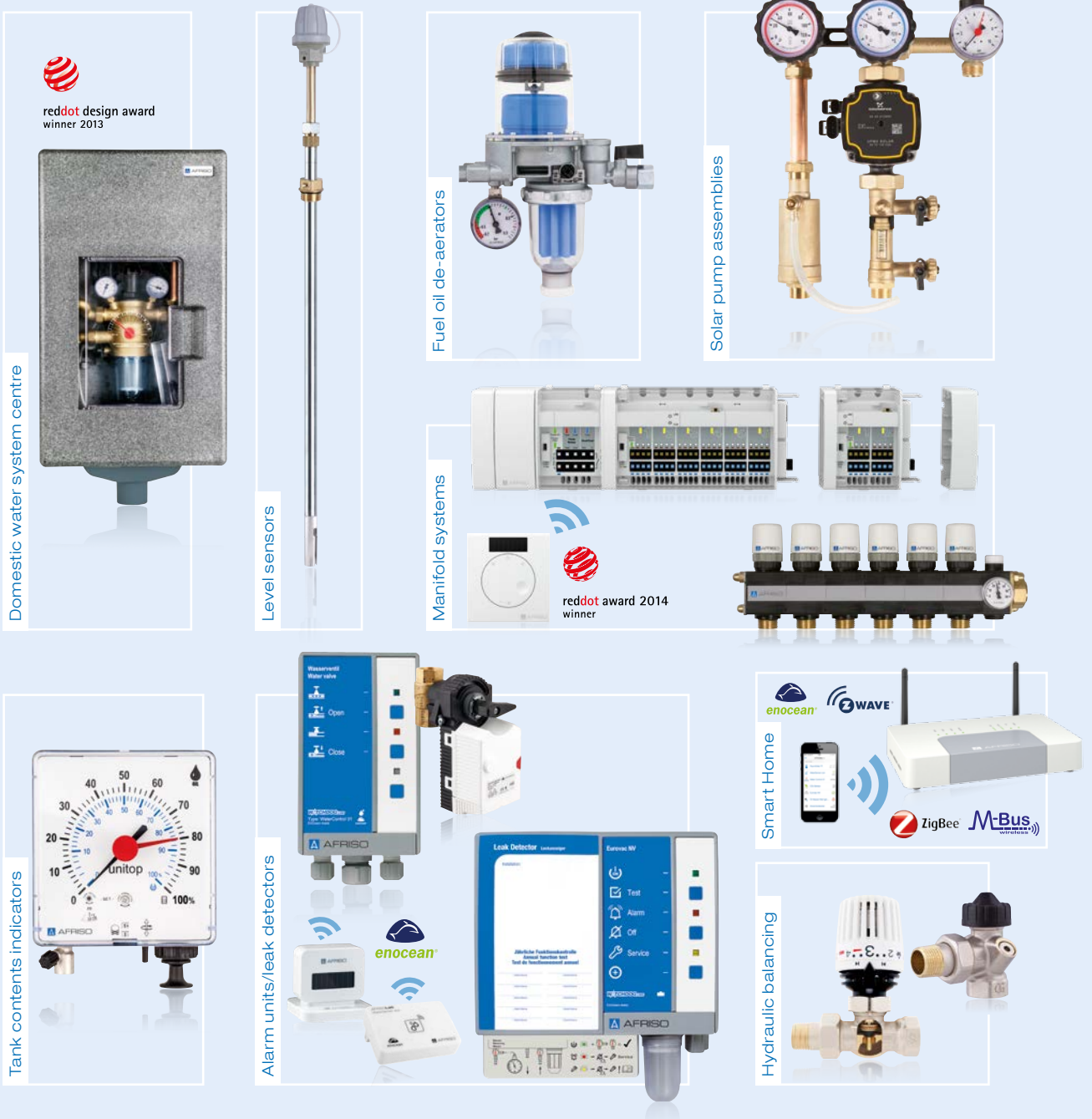
ditions. AFRISO solutions meet the pertinent directives and standards. Certificates, for example for food-quality materials, explosion protection and resistance to media and temperatures attest to this.

### AFRISO products meet the requirements

- Wide variety of process connections
- Large selection of materials
- Compact designs
- Hygienic and easy to clean
- Suitable for CIP and SIP
- FDA-listed materials
- Silicone-free versions
- Resistant to corrosive 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 engineering)
- Medical technology, safety engineering
- Energy production
- Technical trade



## Tanks. Heating. Water Technology.

With a comprehensive range of building technology products, AFRISO prides itself in "Making Heating Systems Safe". Irrespective of whether the heating system uses regenerative energy or fossil fuels.

In addition to this extensive range, a large selection of alarm instruments for the fast detection of level, liquid spillage, leakage, gas or smoke is available.

- Mechanical/pneumatic level indicators
- Overfill prevention systems/overfill alarm systems
- Leak detectors/leak monitoring systems
- Inner tank linings
- Equipment for fuel oil storage tanks, oil carrying pipes, boiler rooms, boilers and heating systems
- Heating controllers
- Distribution manifolds for heating, cooling and geothermal systems
- Smart home systems for building automation
- Valves and control technology for hydraulic balancing
- Equipment for drinking water supply

## Complete range – unbe



## 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 0/4,000 bar

Temperature: -50 °C to +1,100 °C

Level: 0/20 cm to 0/250 m

- Pressure gauges
- Accessories for pressure gauges
- Chemical seals
- Pressure transducers
- Bimetal thermometers and gas filled thermometers
- Thermostats
- Resistance thermometers
- Electronic level indicators
- Display, evaluation and control units
- Event reporting systems/communication systems



## atable performance



Stationary gas analysis

BlueLine measuring instruments



CAPBs® sensor system for many measured variables



## Gas analysis and service instruments

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.

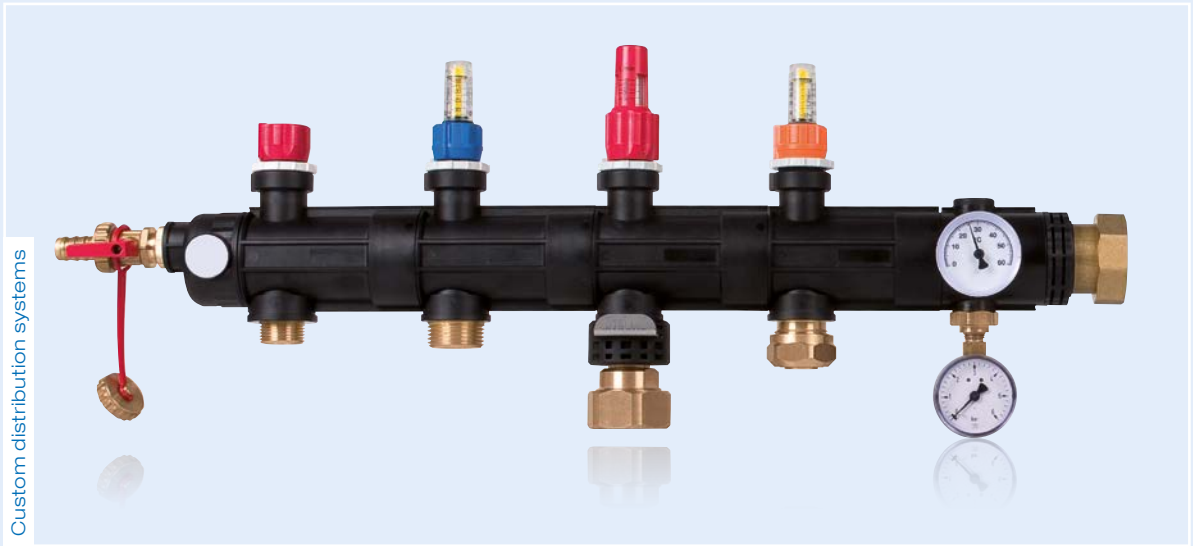
AFRISO offers gas analysers, gas sampling probes and turnkey analysis systems with data acquisition systems for continuous emission monitoring.

- Portable gas analysers
- Portable measuring instruments, analysers and testers
- Bluetooth® sensor module systems
- Gas alarm units
- Stationary gas analysers
- Emission measurement technology
- Measurement data acquisition systems

Complex assemblies made of plastic



Custom distribution systems



## Special designs and system solutions

In addition to our 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.

Our range does not only cover the delivery of individual sensors, but 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 and Distribution



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.

More than 1,000 AFRISO employees respond to country-specific challenges with close customer contact and individual service on site – worldwide!




### AFRISO Group


 Germany


 France


 Great Britain

 Belgium


 Netherlands

 Switzerland


 Austria


 Spain


 Italy


 Hungary


 Czech Republic


 Poland

 Romania

 Sweden

 Russia

 South Africa

 China

 India

 USA

 Peru










#### AFRISO production sites

	Germany
	Great Britain
	Sweden
	Romania
	South Africa
	China

#### AFRISO representations

	Norway
	Finland
	Denmark
	Ireland
	Lithuania
	Latvia
	Belarus
	Ukraine
	Israel
	Croatia
	Bosnia-Herzegovina
	Greece
	Iran
	United Arab Emirates

	Egypt
	Israel
	Nigeria
	Peru
	Thailand
	Vietnam
	South Korea

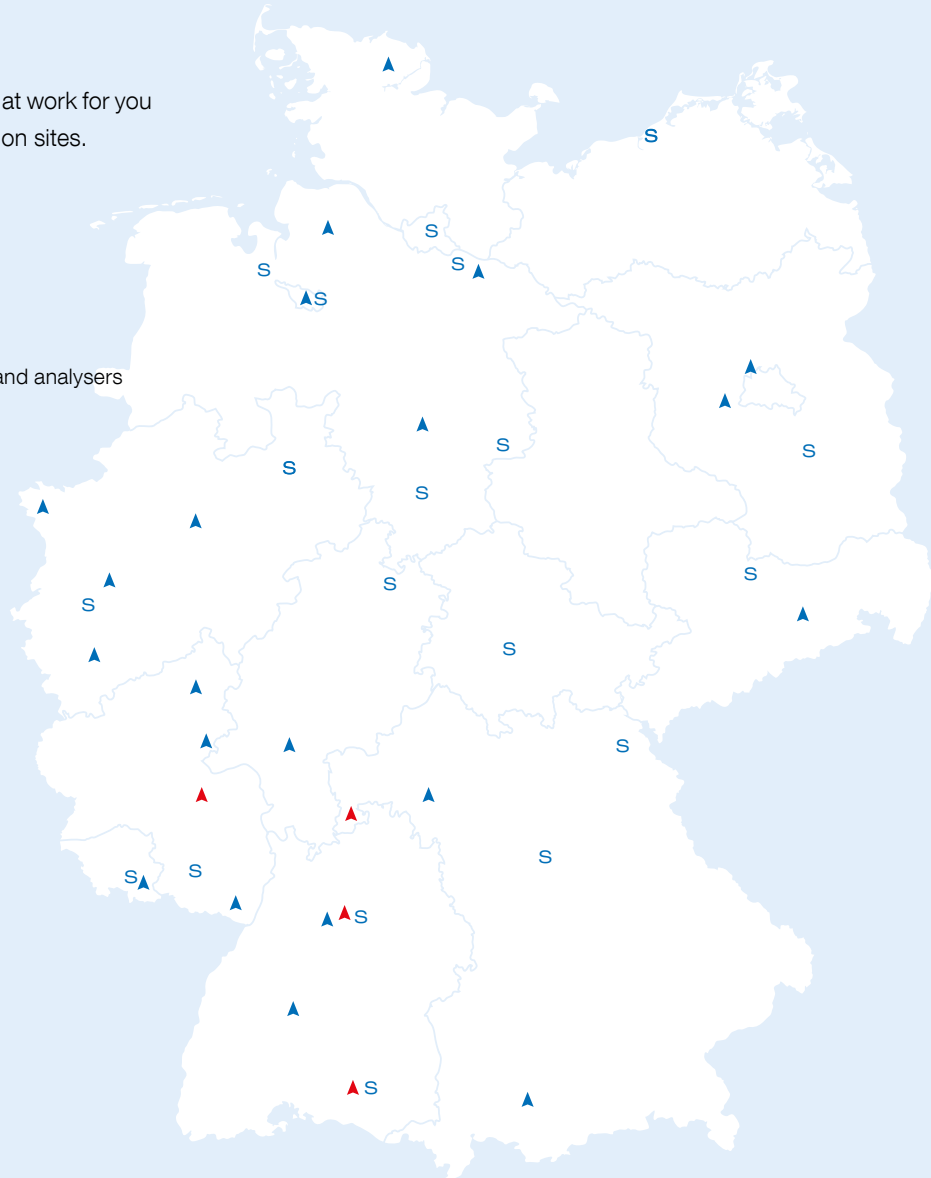


AFRISO support centres – close by, guaranteed.

## Sites in Germany

A staff of more than 550 are at work for you in our four German production sites.

- ▲ AFRISO production site
- ▲ AFRISO sales office
- S AFRISO service point for measuring instruments and analysers



We ensure that you get professional, personal service.

With a staff of more than 80 field and internal experts! Please visit [www.afriso.com/contact](http://www.afriso.com/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 3,000 of them are on stock. A total of more than 1,500,000 individual devices and instruments are available ex stock.



## AFRISO production sites in Germany

### Headquarters

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



### Plant Amorbach

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



### Plant Amorbach – Production of linings

AFRISO-EURO-INDEX GmbH  
Von-Stein-Straße 17  
63916 Amorbach  
Odenwald/Bavaria



### Plant Illmensee

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



### Alsenz plant

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 and environmental management in accordance with ISO 14001 are a matter of course for us and implemented in every process.

### Development and design

Each new development is meticulously engineered, developed, documented and tested. The standard version according to applicable standards 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 ensure security for people, processes and the environment.







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





## Our Service – Your Benefit

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

### Information 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. And if you have an in-house event for your customers, we will be glad to participate.

### Courses and Training

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

Training programme [www.afriso.com/training](http://www.afriso.com/training).



### Service

Whether commissioning, professional maintenance, calibration or function checks – a network of service centres and our specialists support you in getting the maximum out of your AFRISO product. For reliable processes, precise measurement results, compliance with legal requirements and a long service life.

### Repairs

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

### 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 will have your instrument picked up and send you a rental instrument. For a low rental fee. Ask for availability of this service in your country.



# 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 – which became a

renowned brand for temperature and pressure measurement. AFRISO is still family-owned. 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 Kleinartach and Göglingen/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: Development and production of capsule elements as the basis for precision pressure gauges, blood pressure measurement devices and temperature controllers.



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



Market launch of the first portable electronic flue gas analyser.

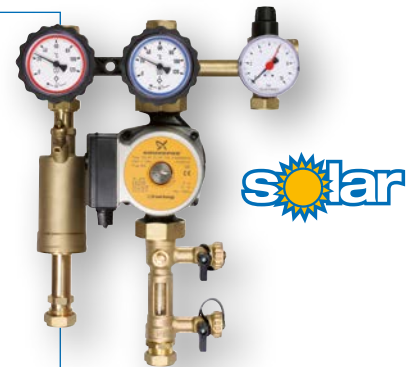






Integration of SYSTRONIK into the corporate group. Measuring instruments for the industry and the environment are combined in a new division.

Market launch:  
Product portfolio for solar thermal systems.



Industry focus:  
Pressure transducer range DMU 02 Vario with high-flexibility connection technology.



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 manifold made of plastic.



Founding of subsidiaries in South Africa, China, 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.





Expansion and new brand identity of the AFRISO group

- New company logo launched:



Measurement technology a step ahead: Modular sensor system AFRISO CAPBs® for BlueLine measuring instruments, smartphones and tablets.

2012

2014

2016



Wireless AFRISO Smart Home for building automation.

Ultrasonic level switch SonarFox® USG 20 for flush-mounted installation without interfering contours.







## AFRISO profile

A total of more than 1,000 employees are at work for you worldwide. More than 550 at the four production 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
- Type of company: Limited liability company, owned and managed by family, independent of corporate group
- Headquarters: Güglingen
- Equity ratio: > 50 %
- Representations and offices: 19
- Exports to 65 countries
- Staff: > 1,000 worldwide, > 550 in Germany
- Production sites:  
Güglingen (DE), Amorbach (DE),  
Illmensee (DE), Alsenz (DE),  
Crawley (UK), Bucharest (RO),  
Arlöv (SE), Rynfield (ZA), Suzhou (CN)

### Portfolio:

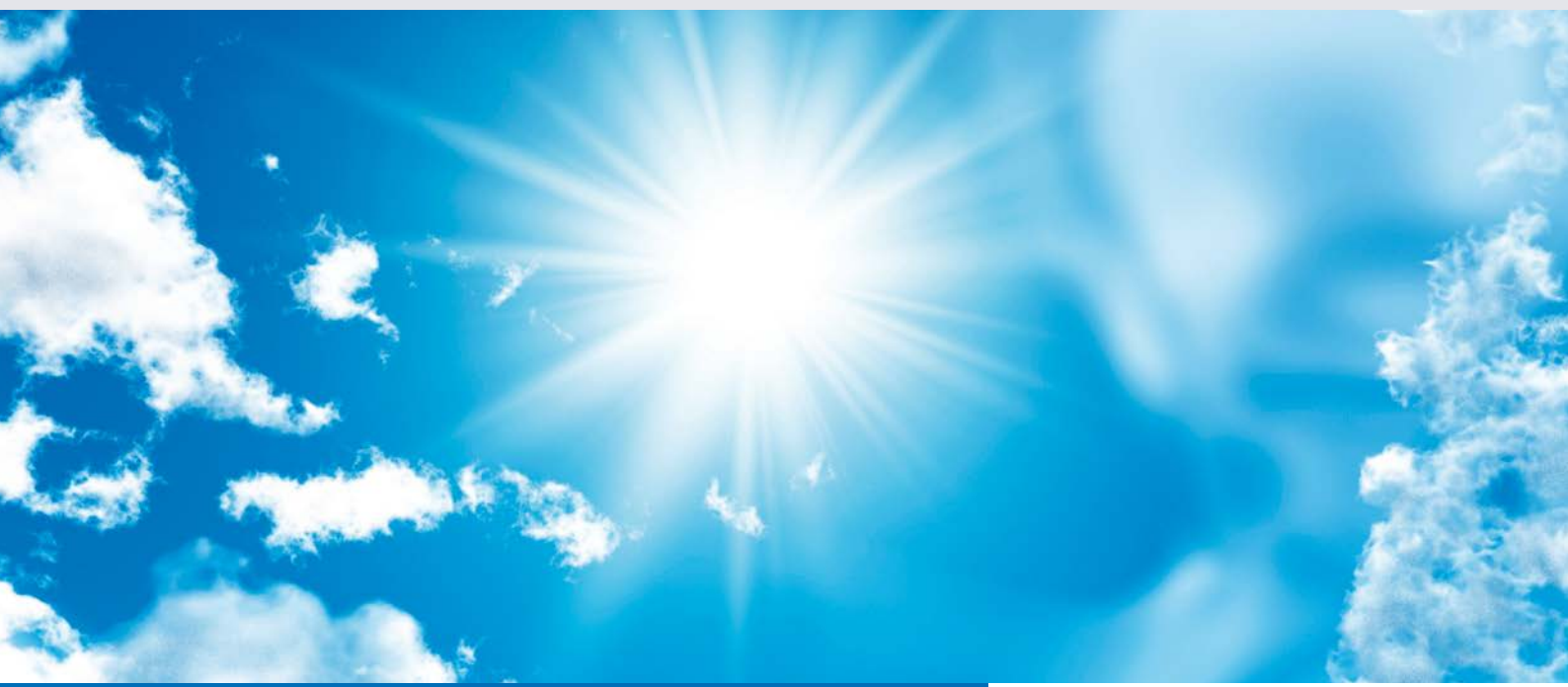
- Measuring, control and monitoring technology for domestic, industrial and environmental applications
- Competitively priced, proven series products
- Special custom products
- System solutions
- Research and development
- Production
- Consulting and engineering
- App development/software programming
- Delivery
- Commissioning
- Training
- After sales

### AFRISO group sales



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