



inforum



1869 - 2019
150 years AFRISO -
company history



**Adjustable
Kvs value**
Pump assemblies
PrimoTherm® with
new 3-way mixer

**Aesthetic and
elegant**
Single room control-
roller RTL-Box 324
Vario with return
temperature limiter

**First Open &
Re-Open function**
New thermostatic
actuators
TSA 02 FO

**pH value, °dH
& CO₂**
New CAPBs®
for determination
of quality



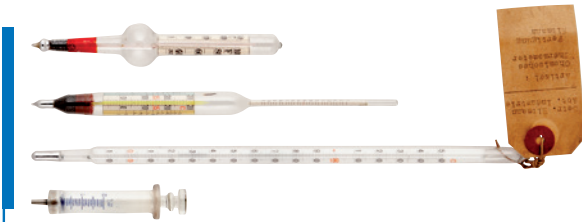
Milestones of the family-owned business



Foundation of company by Adalbert Fritz in Schmiedefeld am Rennsteig (Thuringia).



In 1918, Franz Fritz took over the management. Even as early as that, the company increasingly participated in trade fairs to foster corporate success.



Production of glass thermometers and glass instruments for medical applications and laboratory equipment.

1869

1869-1945

1918

1923-1945

1924-1981



AFRISO provided a complete range of instruments for the operation and monitoring of incubators and warming cabinets: thermometers, temperature controllers, humidity meters, heating elements, fans, signalling devices and monitoring devices such as egg candlers which simplified incubation of eggs.



The first patent for "membrane temperature controller with mercury tubes" served as the basis for the introduction of manometry.

EDITORIAL

Dear Reader,

Adalbert Fritz bestowed not only his name on our company, but also the fundamental principles of its mission today: responsibility and social competence. Now, more than 150 years later, this still sets the standard and drives the company's entrepreneurial activities as it moves towards the future. In a family-run business, the value of a handshake also still applies in a figurative sense, and this is something everyone can count on – employees, suppliers and customers.

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 company processes are aligned with environmental compatibility and many of our products help protect the environment directly or indirectly. For example, improving the operation of existing plants or monitoring combustion processes for compliance with limit values – our motto "Technology for Environmental Protection" has long been an inherent part of our product development philosophy and product range and will continue to drive our activities in the future.

Look back with us on an exciting company history of 150 years, find out more about the new products in 2019 or get one of the many attractive



promotions on the occasion of our company anniversary.

We wish you pleasant reading.

Best regards
Matthias Blasinger
Managing Director Sales
and Distribution
AFRISO-EURO-INDEX GmbH



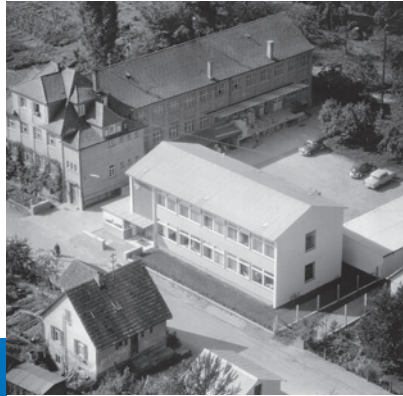
The telegraphic address AFRISO became a globally renowned brand for temperature and pressure measurement.



A new era commenced with the patent and the production of capsule elements: Precision pressure gauges, blood pressure measurement instruments and temperature controllers became the most important products for the time up to 1945 and the new beginning after that.



Georg Fritz entered the company

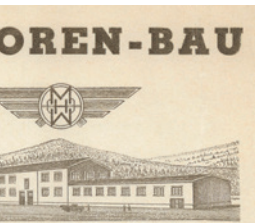


Reconstruction

In the Germany-wide spirit of optimism of the 1950s, Franz and Georg Fritz began rebuilding the company in Kleingartach and Göglingen Württemberg.



1924 1935-1940 1945 1950 1955 1958 1960



Franz Fritz invested in a new plant for the production of front motors for bicycles. The petrol-powered engines could be mounted on a bicycle within minutes and reach speeds comparable to those of motorcycles. In 1940, the company was expropriated.

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



The capsule element was also key in the development of pneumatic level indicators which marked the entry to the fuel oil market in 1955. This was followed by mechanical level indicators, overfill prevention systems and leak monitoring systems for the safe storage of oil products.



Products for electronic level measurement extended the range for industrial applications.





AFRISO pioneered on the market with the first portable electronic flue gas analyser and became a key driver in the development of mobile measurement technology in the HVAC sector ever since.



After the political change: Subsidiaries were founded in promising markets in Poland, the Czech Republic and in the rest of Eastern Europe as well as in Russia. A new production site was set up in Bucharest to offer the best and most cost-effective solutions in the market segments for standard applications.



Jürgen Fritz enters the company as managing director in 1992



Elmar Fritz enters the company as managing director in 1986



SYSTRONIK, originally founded in 1987 by two engineering firms, became a member of the AFRISO group in 1996. Measuring instruments for the industry and the environment were combined in a new division.

1972 Oil crisis 1973-74 1981 1986 1992 1992 1992-1998 Internationalisation 1996



The market launch of the first compact distributor also marked the beginning of the production of assemblies made of plastic and long-term OEM partnerships with important system providers.

Reorientation

The oil crisis of 1973/1974 entailed a profound paradigm change in the world economy. For AFRISO, it triggered the development of a comprehensive range of products for the efficient and environmentally friendly operation of heating systems.



Opening of the plant in Amorbach: The new plant was optimised with the production requirements for pressure gauges and thermometer in mind. At this stage, AFRISO already is a provider of a complete range of pressure gauges for domestic technology. The investment served as the basis for a high-quality range of pressure measuring instruments for industrial applications. As early as 1998, the site was extended for the first time.



Expansion path: Branches were founded in South Africa, China, India and South America. Today, the AFRISO group comprises 19 members with a staff of more than 1,100.



Gampper ARMATUREN



Acquisition of Gampper Technik GmbH: Control units and fittings for radiators extended the product portfolio for DOMESTIC TECHNOLOGY; AFRISO launches a complete product range for hydraulic balancing.



Market launch of the CAPBs® sensor modules: The name stands for "capabilities" to denote the versatile, smart features of portable measuring instruments for a digitised HVAC and chimney sweep market.



AFRISO emission monitoring systems monitor and document the limit values of exhaust gas cleaning systems on maritime vessels.

1996 **2006 Expansion** **2011** **2012** **2012** **2012 Digitalisation** **2015** **2016** **2017** **2019**

AFRISO specialised in the new area of stationary gas analysis: The new division engineers and implements turnkey system solutions for emission data acquisition.



The AFRISO Group gets a new look with a modern company logo.

150
JAHRE

www.150-jahre-afriso.de

In 2015, AFRISO acquired the start-up CODEATELIER. Today, a team of 15 app specialists takes care of the sustainable development of the AFRISO smart home solution.



With the market launch of the pressure transducer DMU 02 Vario with high-flexibility connection technology, the division INDUSTRIAL TECHNOLOGY established a new industry focus on hygienic processes in the chemical, pharmaceutical and food industries.



AFRISO launches the AFRISO Smart Home system for building automation. The wireless system allows intelligent sensors to be networked and smart-enables proven products from the area of domestic technology.

The optimised pump assemblies **PrimoTherm® 180** with adjustable flow coefficient Kvs

The correct factor is what counts: The flow factor or flow coefficient is key in rating hot water heating systems and providing the right amount of heat at the radiators. Mixing valves in installations must be correctly rated before they are mounted and aligned to the required flow coefficient Kvs of the system. If a selection error is made or the system is modified at a later point in time (for example, extended), the existing valve is usually no longer usable. If the flow coefficient Kvs is only

estimated, the system will not operate in an efficient way and the owners will „burn“ money.

The optimised heating pump assemblies PrimoTherm® 180-1/-2 with nominal diameter DN 25 solve these issues and allow maximum flexibility for the installer at the construction site. The installed new 3-way mixing valve ARV 325 KVS Vario features an integrated plate with adjustment scale which allows an adjustment of the Kvs value within a range from 2.5 to 12. This can even be done at a later point in time when the system is pressurised.

3-way mixing valve
ARV 325 KVS Vario



Benefits:

- A mixer for all cases: Simply set the required Kvs value without draining the system.
- Adjustable flow coefficients Kvs: 2.5, 4, 5, 6, 8, 12
- Reduces warehousing efforts for mixers and pump assemblies
- Optimum adaptation to the control requirements of the system
- Integrated locking unit against unintended readjustments

NEW: AFRISO ProClick

If automatic control of the return admixture is required, the pump assemblies with the corresponding silent actuator ARM ProClick offer a genuine innovation. The new AFRISO ProClick adapter system allows for hassle-free mounting of the motor to the mixing valve without tools – snap on and done.

This simplicity is also available for switching between automatic and manual mode – it is sufficient to press a button. Just like its predecessor, the new actuator is maintenance-free and features LEDs to indicate the direction of rotation. The rotary knob with scale allows for fast and accurate

manual adjustment of the mixing valve. For full flexibility during mounting, the plate features scales on both side with „0 to 10“ or „10 to 0“ and can be turned, depending on the direction of flow. An integrated protection unit keeps the actuator and mixing valve from blocking for a long service life.

Benefits:

- Compact, silent actuator with an angle of rotation of 90°
- Mounting without tools: Simply snap the actuator onto the mixer.
- Colour LEDs indicate direction of rotation
- Fast switching between automatic mode and manual adjustment



Compact and elegant at the same level as light switches

Single room controller RTL-Box 324 Vario with return temperature limiter

The new AFRISO RTL-Box 324 Vario single room controller with return temperature limiter controls the temperature in individual rooms so far heated by one radiator. It is designed for connection to newly installed underfloor or wall heating systems. The RTL-Box combines heating circuit, room temperature sensor and control in an exceptionally compact single unit. The purely mechanical function of the room controller requires neither additional electrical power nor actuators nor similar equipment. Due

Benefits:

- Very compact high-gloss plate (11.5 x 13.5 cm) made of robust plastic
- Elegant, compact thermostat control head
- Fully adjustable room temperature from 8 to 28 °C

NEW

frame which adapts to all wall conditions and levels a height of up to 25 mm. An optional extension kit al-

to the compact dimensions and the aesthetic design, the RTL-Box fits perfectly at the level of light switch installations.

This ensures optimum control characteristics and high user-friendliness.

RTL-Box consists of a high-gloss cover plate, an aesthetic thermostat control head and a mounting

allows you to extend the thermostat head by an additional 20 mm, for example, if the wall in an old building is unlevel or the maximum height is exceeded. The wall installation box with shell protection comprises an adjustable valve assembly consisting of a control valve, a thermostat valve and a return temperature limiter for limiting the radiator return temperature to a temperature level suitable for the underfloor or wall heating system. An integrated vent valve allows for optimum venting of the heating circuit.

The pipes of the underfloor heating system can be easily connected to all other pipe systems by means of the enclosed pipe connector (connector with clamp). Time-consuming, arduous tightening of pipe connections in the connection box is not required.



Extended range: Now also with First Open and Re-Open function

Thermostatic actuators TSA 02 FO

The new AFRISO actuators extend the proven product range of TSA series of thermostatic actuators by versions with First Open and Re-Open function. The First Open function ensures that the actuator is factory-opened so that the stroke valves at the heating circuit manifold of the underfloor heating system remain open during initial commissioning. This is a great benefit since in the case of conventional normally closed actuators, the stroke valve is tensioned and closed when the actuator is mounted. This does not only complicate the installation of the actuators, but makes initial filling of the underfloor heating system impossible since, at this point in time, the control system is usually not yet operative. The actuators would have to be dismantled to open the stroke valves.

For servicing, the factory setting "open" can be restored manually via the hand wheel without power having to be applied. As in the case of all AFRISO actuators, the wire ends are ultrasonic-welded and can be easily connected to terminal blocks or the temperature controllers.

Benefits:

- First Open factory setting
- Manual Re-Open function without power applied – ideal for servicing
- With integrated stroke indicator
- Either as 24 V or as 230 V version

NEW

Range extension

CAPBs® for quality determination

The success story of the compact, cable-less sensor modules CAPBs® continues with yet another chapter: Smart probes for the determination of the quality of water in heating systems and ambient air quality in rooms.

pH value, conductivity, °dH

CAPBs® sens WQ 10

Application:

For determining the water quality and assessing the system water in heating systems (for example, heating system water analysis as per VD 2035). WQ 10 allows you to quickly detect corrosion damage in systems and take preventive measures.

Description:

CAPBs® sens WQ 10 simultaneously determines the pH value, the electrical conductivity ($\mu\text{S}/\text{cm}$) and German hardness ($^{\circ}\text{dH}$) with a single measurement. In addition, the TDS value (total dissolved solids in the water), salinity and temperature can be measured. Thanks to automatic measuring range switching, the conductivity can be measured with a high measuring accuracy within a large measuring range.

To allow for quick assessment concerning the necessity of corrosion protection measures or system cleaning, AFRISO offers **complete on-site kit in the system case M** (Sortimo-BOXX) with all calibration solutions and sample containers.



CAPBs® sens AQ 35

CAPBs® sens WQ 10

NEW

Carbon dioxide, humidity, temperature

CAPBs® sens AQ 35 / AQ 36

Application:

For CO₂ concentration measurement, assessment of the ambient air quality in rooms and adjustment of ventilation and air conditioning systems as per EN 13779 or TRGS 900 (limit values for workplaces). Ideal for sampling tests at office workplaces, in laboratories or in production facilities.

Description:

CAPBs® sens AQ 35 measures carbon dioxide; the multi-sensor AQ 36 additionally measures humidity and temperature. The highly accurate CO₂ infrared sensor has a very low drift; it can be adjusted in fresh air. Thanks to the possibility to conveniently enter the measuring time, it is possible to check and document given CO₂ mean values.

LEGAL

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I authorise AFRISO to send me information on the product range on a regular basis, also via e-mail. I can revoke this authorisation at any point in time. No data will be disclosed to third parties.

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