



Clear advantages in the water –  
Safe and accurate monitoring,  
measuring and regulating



# Baumer – You can rely on our technology

Sophisticated products, highest precision and competent consultations – Baumer can satisfy these requirements. Our diverse portfolio offers you the optimal sensor solution, adjusted to your industry's specific needs. Decades of experience and advanced technologies will guarantee a maximum performance and safe, long-lasting use of the products. With our international presence, we can provide personal, on-site consultations. Our international focus makes it possible to advise you competently worldwide and to offer user-friendly solutions. Our service is distinguished by its dedication to our customers.

## Water is our element

The world's growing challenges in water distribution and treatment require new and innovative technologies that adapt to the rapid developments in the water and wastewater segment. As the leader in sensor solutions and measuring instruments, we are driving the production of high-quality technology for water applications with a pioneering spirit. Of course, safety and reliability are the top priority. That is why our portfolio also focuses on a strict compliance with the existing standards and regulations.



## Only Baumer has the original

Invented by Eugène Bourdon, this method for measuring boiler pressure with the Bourdon tube is still the essential component of precise mechanical pressure measuring instruments. The company founded by Eugène Bourdon, now Baumer Bourdon Haenni SAS, has become a "center of competence" within the Baumer Group.

Baumer has not only improved on the benefits of the Bourdon measuring instruments but also linked them with the high standards of professional advice. Only Baumer offers you the Bourdon original.

# We offer clear advantages in the water

Baumer has a diversified portfolio for water applications based on a variety of sensor technologies. Our customers benefit from our integrated consulting and reliable service on an international level. We collaborate to develop specific solutions with significant cost and performance advantages. Our customers benefit from our innovative development teams, the high level of vertical integration in our production facilities and the optimized business processes. This way we can guarantee you the greatest possible individuality, quality and timeliness in implementing your requirements.

Temperature sensors

Pressure sensors

Level monitoring sensors

Leakage sensors



Better in detail:

Everything from one source – Our wide product range excels at meeting the requirements for the reliability and precision of the sensors and measuring instruments.

*Bourdon original  
manometer*

*Ultrasonic sensors*

*Mechanical temperature  
sensors*

*Conductivity sensors*

*Capacitive sensors  
Inductive sensors*





# Clean solutions in clear water

Best quality, safe supply and fair distribution: The technology in use has to do its part to ensure the high standards of our drinking water. Sensor solutions for drinking water storage and distribution have to show a high degree of precision, reliability and safety. The versatile sensor solutions by Baumer include interference-resistant and long-term stable measuring instruments that are suitable for a wide range of measuring tasks. The simple mounting of the compact measuring instruments and their freedom from maintenance will save you time and money.

# Highly accurate and long-term stable measuring instruments – clear advantages for your drinking water

## Level and limit value detection

- Exact measurements in the millimeter range in groundwater and drinking water storage
- Long-term stable measurement results and optimal control of water availability through submersible pressure transmitters
- Long lifespan due to the high corrosion resistance of the used materials
- Simplified initial start-up and high flexibility on-site through sensor parameterization when mounted
- Compact submersible pressure transmitters that can be mounted directly in bore-holes

## Safe pump and line pressure monitoring

- Precise pressure monitoring and constant pressure control even with fluctuating water use
- Safe dry run protection in water pumps
- Maintenance-free measuring instruments to reduce operating costs

Better in detail:

Precise measurement results for an efficient and safe operation.



**PSMN submersible pressure transmitter.** The reliable submersible pressure transmitter has a high long-term stability and delivers precise measurement results. The excellent durability and high resistance guarantee absolute functional reliability. With its compact design it can be mounted directly in 1" pipes.

**TED electronic pressure switch.** The digital pressure transmitter with an analog output and two switching outputs is designed for a harsh environment. The rotatable design with an easy-to-read LED display can also be programmed on-site. Thanks to separated outputs, the transmitter can also be used in EEx ia areas.

**PBMN pressure transmitter.** The pressure transmitter with a piezoresistive sensor in a rugged stainless steel housing has a high overpressure safety. The PBMN can be parameterized on-site, which makes it possible to adapt it to its use. Thanks to the high chemical resistance, it can be used universally and in a wide range of applications.

**RP2N mechanical pressure switch.** The mechanical pressure switch offers safety for precise switching point detection. This is ideal for liquids and gases where high vibration resistance is important. High overpressure safety guarantees reliable and maintenance-free process monitoring.

# Clear results even in waste water

In the complex separation and purification processes of water reclamation, abrasive media and adhering solids make it more difficult for the sensors to operate safely and without problems. A consistently reliable process control and operational safety has to be guaranteed just as well as compliance with increasingly demanding environmental requirements. Baumer sensors are designed to function safely and reliably even in contact with chemically contaminated water or areas at risk of explosions. A wide product range of mechanical and electronic sensor solutions guarantees the right measuring technology for individual use.

## Rugged, durable measuring instruments – for safe process control

### For safe overflow protection

- Highest functional reliability guarantees optimum process monitoring
- Reduced maintenance costs due to freedom from maintenance and low wear in the measuring process
- High ruggedness and resistance to abrasive solids, viscous and adhesive media
- Reliable switching behavior and high material resistance when used in a polluted and/or chemically contaminated environment

### Safe monitoring and controlling

- High operational safety even with high pressure loads
- ATEX certification for use in Ex areas
- Use of flush-mounted pressure sensors as a dry run protection in the raw sludge conveyance process
- Exact and safe temperature control during the sludge treatment process



Better in detail:

Guaranteed reliable measurements even in highly polluted environments through optimized measurement principles.



**LBFS level switch.** This clever alternative to the tuning fork sensor also provides reliable measuring results in case of media attachments. It can be used universally for liquids and solids and is also predestined to be a dry run protection. The level switch can be programmed on-site, is ideal for the separation of media and can also be used in Ex areas.



**PSSN level sensor** This submersible pressure transmitter with a resistive ceramic sensor has a high material resistance and is extremely resistant to abrasive media or solids. It is easy to handle and has an excellent price-performance ratio. This absolutely impermeable and robust measurement system in a stainless steel housing is easy to clean.



**TE1 temperature sensor.** The fast-responding temperature transmitter in a stainless steel housing is maintenance-free and can be used at temperatures of  $-50\text{ }^{\circ}\text{C}$  to  $+250\text{ }^{\circ}\text{C}$ . The accurate sensor tip provides reliable and precise measurements. The devices are also available with a display.



**MEX manometer.** The pressure gauges are designed to be used in gaseous and liquid media. With their multiple flange and pressure seals connectors, they are also suitable for use under extreme conditions. They are available with and without damping fluid, limit value contacts and ATEX certification. A high switch and repeat accuracy, along with pressure ranges of  $-1\text{...}0\text{ bar}$  to  $0\text{...}1600\text{ bar}$  /  $-15\text{ psi...}0$  to  $0\text{...}20'000\text{ psi}$ , guarantees safe procedures.



# More technology, drop by drop

The increasing demand for water in regions with low amounts of fresh water, along with the high processing cost of salt water treatment, require a sensor technology that is always setting itself new challenges. Aggressive environmental conditions require robust and corrosion-resistant sensor solutions. The measurement sensors from Baumer, suitable for the fresh water production and distribution, are equipped with special metal alloys and thus guarantee an increased robustness in aggressive environmental conditions. Precise and constant pressure monitoring, accurate temperature measurement and reliable conductivity measurement guarantee a consistently high water quality all the way to the consumer.

# Corrosion-resistant sensors can withstand difficult environmental conditions

Precise pressure control for safe processes

- Reliable and accurate pressure control for coupled process circuits
- Protection against running dry during water distribution due to flush-mounted pressure sensors in the pumps
- Constant pressure control across long distances
- Pressure shock resistance ensures a long lifespan

For the best water quality

- Exact temperature control with highest measuring accuracy
- Safe temperature monitoring during the entire evaporation process
- Continuous monitoring of water quality

Better in detail:

Highest corrosion resistance ensures a long, maintenance-free operating life with exact results.



**RTY temperature switch.** The intrinsically safe temperature sensor is the reliable alarm and safety system for your processes. It is available for all liquids and gases with one or two switching outputs. The measuring element in copper or stainless steel guarantees temperature monitoring up to 350 °C.



**PBMN pressure transmitter.** The pressure transmitter with a flush-mounted membrane and field housing is the solution for difficult environmental conditions. Various output signal options offer the required flexibility and make it suitable to fit any control. The ATEX certification and highly resistant materials allow use in aggressive environments.



**ISL conductivity sensor.** The temperature-compensated conductivity meter for reliable measurements provides 14 switchable measuring ranges and allows a precise process control. The sensor is immune to adhesion and solids when used.



**PBSN pressure transmitter.** The pressure transmitters of this series offer flexible solutions and ensure a smooth operation – even during demanding applications where precision, chemical resistance, robustness and reliability are needed. An excellent long-term stability, saltwater-resistant stainless steel and high accuracy over the compensated temperature range guarantee precise deployment and a long lifespan.



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