

# Laser distance measurements in biogas plants



&  Tippkemper®

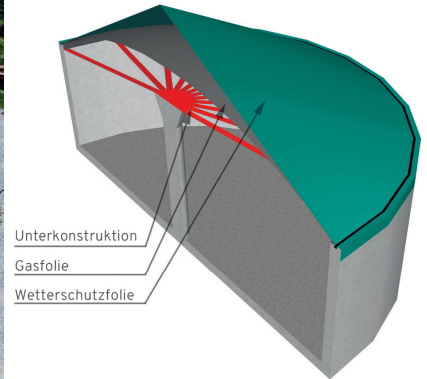
*DRITIX*  
elektronik ag



A very strong  
connection



# Double membrane gas holder



## Double membrane gas cylinder from Baur Folien

**The double membrane gas storage system is the latest development in biogas storage.**

An effective, state of the art system. The system is extremely robust and durable.

The weather protection film protects the integrated gas storage film from the effects of the weather. This protects the gas holder and ensures a long service life. The use of the latest welding equipment ensures that the seams are reliably sealed.

We supply the weather protection film in all standard colours and, on request, in other colours of your choice. As an option, we can integrate a belt tensioning system into the overall system.

The strap arches sit on top of the weather protection film and provide additional force absorption.

You can choose the shape of the roof structure. You can choose between a conical shape and a spherical cap shape. We use a variety of fixing methods, such as the stainless steel U-profile with clamping tube, or alternatively a stainless steel flat profile. The storage tank can be mounted on new or existing tanks, as well as on concrete ceilings or foundations. Depending on your requirements, we can manufacture the storage tank in various shapes (round, square, oval) or adapted to your required volume.

**On request, we can deliver and install our covers for you worldwide.**

# Laser distance sensor

**Already well  
proven in use**



in  hazardous areas

## **Explosion-proof, compact laser distance sensor from Tippkemper-Matrix**

for the non-contact and precise measurement of distances in biogas digesters, final storage facilities, gas storage facilities in the sewage treatment industry on digesters, on coarse screens (waste water, solids, substrates), etc.

**>> Non-contact, precise, maintenance-free and wear-free  
Compact and robust design, low weight <<**

## **The new laser distance sensor Type LDH-AAA-FCB-TF**

This means you are ideally positioned to meet future requirements in the biogas and wastewater treatment sectors.

Easy and user-friendly adjustment of the required measurement parameters, lens heating to prevent condensation on the optics, and laser clocking for long service life and safe operation provide maximum safety and reliability.

The compact, robust design and low weight make it ideal for use at the highest point of your weather protection film, for example.



# Baur Folien & Tippkemper-Matrix



Baur Folien has been supplying components to the biogas industry since 1991 and meets customer requirements in terms of products, quality, service and logistics. The production programme covers a wide range of modern film materials.

For example, biogas storage tanks are manufactured as cushion or cylinder storage tanks, tank and lagoon covers in the form of single or double membrane film covers and emission protection covers.

At the Wolfertschwenden site in the beautiful Allgäu region of Germany, qualified specialists use state-of-the-art machinery to process the materials.

In addition to overpressure/underpressure safety devices, support air blowers and suitable level measurement systems, Baur Folien supplies many other components. If required, the relevant components of the gas storage tank can be designed in accordance with the requirements of TRAS 120.

[www.baur-folien.de](http://www.baur-folien.de)



# Baur Folien & Tippkemper-Matrix



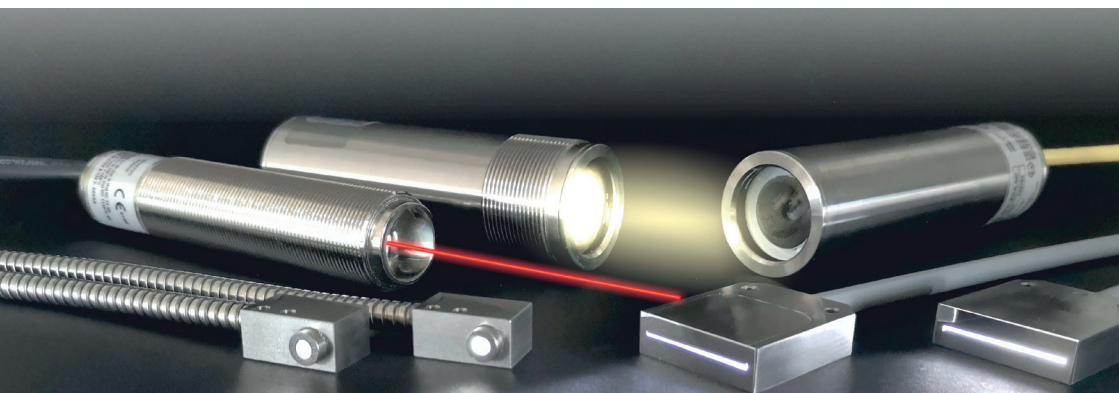
Tippkemper-Matrix GmbH is a medium-sized, family-owned company with several locations in Germany and Switzerland and is one of the leading sensor manufacturers in industrial automation.

In addition to optical, inductive and capacitive sensors, Tippkemper-Matrix specializes in sensor solutions for hazardous areas.

We have been solving our customers' challenges every day for almost 50 years and offer competent solutions for even the most difficult and specialised tasks and applications. Many years of experience, sophisticated and innovative Ex products such as laser rangefinders, cameras and lighting provide you with the highest level of safety.

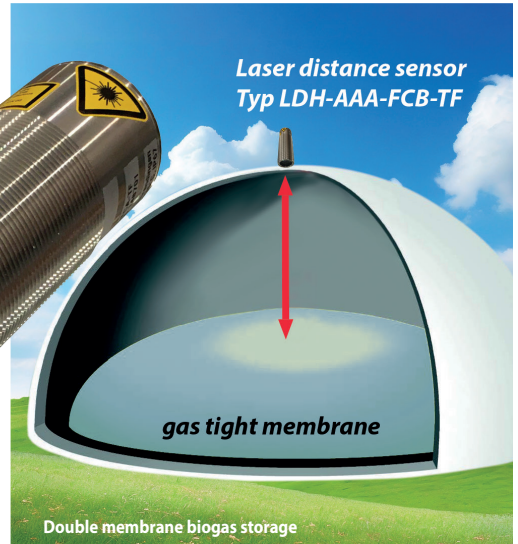
Tippkemper-Matrix, your competent and reliable partner for all questions concerning sensor solutions in hazardous areas.

[www.tippkemper-matrix.de](http://www.tippkemper-matrix.de)

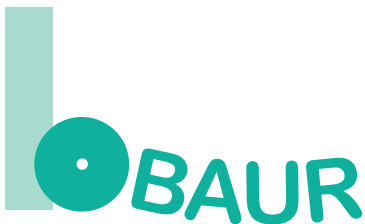


– a very strong connection

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## Your contacts



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