

## Application Example

### LRC LPG – Overfill Prevention for loading/unloading LPG

#### A report of a satisfied customer:



Dear Mrs. Hoeckner,

**Ref.:** Positive Statement to your products „LRC“ Level Remote Control

FLAGA GmbH, market leader in the liquefied gas industry in Austria, has decided to take another technically innovative step to increase the safety of the transfer, delivery and dispensing of liquefied gas (mostly commercial propane) using road tankers.

It is also always a concern of FLAGA GmbH to offer customers more service, for example displaying the content of the tank for the customer. To make liquid gas tanks as comfortable as possible, or to give FLAGA itself the opportunity to remotely read the tank contents at the customer's premises and to provide the customer with an automatic delivery service so that the customer is free to make his business and FLAGA, as a liquid gas supplier, automatically monitors the filling of the liquid gas tank and then refills it if necessary.

The vision of FLAGA GmbH is also to reduce the costs for the transport of the liquefied gas to the customer in terms of modern delivery logistics to plan optimally and thus reduce transport costs.

In the course of research and market information, we were able to see your company Secu-Tech as an innovative problem-solving company for this sensitive area as highly suitable and competent.

This was the beginning, laid the foundation stone, so to speak, for an extremely constructive cooperation until today (2004-2021....).

FLAGA GmbH currently has two products from Security & Electronic Technologies GmbH in use, namely the LRC (radio Remote Control with dead man function (timer) when transferring liquid gas) for liquid gas road-tankers and a level gauge for stationary liquid gas containers being tested for content detection and forwarding this information to a defined location (e.g. FLAGA GmbH for the purpose of automatic refilling of the container or the customer tank in time and for the purpose of simplified tracking of the tank contents).

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#### LRC – radio controlled overfill-prevention

This device enables the tanker driver to stop the process on site immediately from a safe distance in the event of a non-operational incident (e.g. the escape of liquid gas, as well as other dangerous ailments or circumstances.)

The dead man function also ensures that automatic shutdown takes place as soon as the tanker driver does not acknowledge the LRC in the specified time interval. This is an essential safety-enhancing advantage in handling liquid gas and in the filling process.

A special and highly successful step in more safety during the transfer process could be achieved by means of the LRC in connection with an additional air control to an external locking device (rail hook) for the bottom valves of rail tank cars. With the LRC, the process can be stopped both manually and automatically via the pneumatic system, with the bottom valves of the rail tank car being integrated into the shutdown system. This represents a big step in the right direction, namely an increased safety when transferring liquid gas.

The LRC is an EX-approved device, which is suitable for use in potentially gas-contaminated atmospheres and thus fulfills all safety regulations for electronic devices for EX areas in accordance with the Liquid Gas Ordinance and EX guidelines.

The engine start/stop function is particularly user friendly for the operator/driver because it allows the tanker driver to be outside of the road-tanker, conveniently able to turn off the vehicle engine or the liquid gas pump or to put it back into operation.

This saves time and thus unnecessary costs due to laborious manipulation of the vehicle in order to start, interrupt or end the filling process.

At this point, it is essential to mention that the technical competence of a tank truck manufacturer has decisively flowed into the practical and driver-friendly design, so that an all-round optimal solution for FLAGA GmbH was the result.

The LRC is a very handy device, very robust for use in rough practice and hardly or difficult in manipulation for the operator.

The periodic acknowledgment on the LRC initially took some getting used to for the drivers, but they all got used to it within a few days and then had no further particular difficulties with it.

For the time being, FLAGA GmbH has equipped the tankers built in 2004 with this system and intends to use this system as standard for all LPG road tankers built in the future. (Note: until today – in 2021, FLAGA is still using it and equipping all tankers!).

The LRC System has so far proven itself extremely well in the practice of liquid gas handling, so I can recommend this with clear conscience.

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FLAGA GmbH can confirm that Security & Electronic Technologies GmbH is a very competent and innovative company for modern approaches to problems in the areas of the use of electronic, innovative and mature solutions in the transport, filling and storage of fossil fuels, e.g. liquified gas (propane, butane) or mineraloils, highly recommended to the energy supplying industry.

FLAGA GmbH  
Leobendorf, am 26. Juli 2004

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