

## viaSonic stands for distance measuring in liquids via ultrasonic.

Depending on the application, a reliable level measurement, level switch or object position measure-

ment in liquids is performed. The products of viaSonic solve challenging measurement tasks in a smart way: measurements from outside, in interchangeable and pressurised tanks, in motion and

## Innovation in ultrasonic



reflect the limits

with maintenance-free coupling. viaSonic is a start up business unit of Truma Gerätetechnik GmbH & Co KG. Truma, with over 450 employees, is a leading European manufacturer and OEM-supplier for comfort products in mobile applications.

### Ultrasonic technology since 1997

At the beginning Truma was asked by caravan customers to offer a display showing the fuel level of liquefied petroleum gas cylinders. The ensuing extensive development activities led to the Sonatic® product line. Nowadays viaSonic realises ultrasonic measurement

solutions for various industrial and mobile applications and supplies OEM-customers and distribution partners with sensor systems.

### High quality in production, research and development

The high quality standard in all viaSonic development and production processes guarantees continued success. These standards are the basis for the verifiable high customer satisfaction from its OEM partners, as well its industrial or private users.

Certified according to DIN/EN/ISO 9001

# viaSonic

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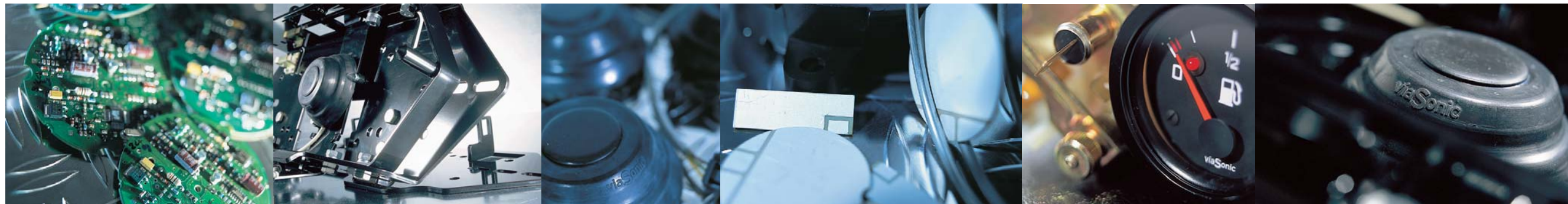
## Ultrasonic-sensor systems for industrial and mobile applications



In many applications an accurate measurement of level, a level switch or position measurement is of vital importance. Via “state of the art” ultrasonic technology viaSonic sensor systems allow reliable measurements, even

in applications where conventional measuring instruments and methods fail, in closed vessels (pressure, environmentally hazardous substances, etc.) and in excessively moving fluids (LPG, oil, refrigerants, etc.).

**Sensor systems based on ultrasonic:  
reliable. maintenance-free. cost-effective.**



#### viaSonic: your partner

Via sensors of viaSonic you increase the desirability and the value of your products and systems for customers and users. We offer you the chance to enhance and sustain your competitiveness by being a step ahead.

As a system supplier we develop, produce and distribute ultrasonic sensor systems for various applications. Based on the extensive know-how of our experts, our vast experience and our ultrasonic methods, we offer unique measurement solutions to OEM-customers and sales partners.

viaSonic sensor systems measure liquids reliably

- through walls or inside a vessel
- on interchangeable containers
- in motion

#### The key: Sonatic®-dry coupling

An example of viaSonic's expertise is the unique Sonatic®-dry coupling, with which a secure coupling of ultrasonic sensors to interchangeable vessels is possible for the first time. The measurement takes place from outside, without contacting the medium, by signal transmission through the tank wall. The tank material could be plastic, steel or aluminium etc. The usage of additional coupling materials becomes redundant, thereby costs and maintenance expenditure decreases. Previously unsolved measurement challenges, like fuel level measurement of portable LPG cylinders, can now be reliably and efficiently performed.

#### Ultrasonic-sensor systems from viaSonic

##### ... measure through walls

viaSonic ultrasonic-sensor systems allow the non-invasive measurement of:

- fluids in pressure vessels
- aggressive fluids
- hazardous material and environmentally dangerous fluids
- food and pharmaceutical products (free of contamination)

##### ... allow the usage of interchangeable containers

It is possible to use common interchangeable vessels e. g. LPG cylinders without any constructive changes. This makes it easy to swap containers. The press-on device in relation with Sonatic®-dry coupling ensures a secure connection of the sensor to the container.

##### ... measure fluids directly

It is possible to integrate the sensor system directly into the medium – a valuable option for some applications.

##### ... are suitable for mobile applications

Thanks to state of the art signal processing even extreme fluid movement is recognized and filtered. This guarantees reliable level measurements in mobile applications.

##### ... measure without wear and tear

As our systems have no moving parts they remain maintenance-free and cost efficient.

##### ... offer benefits and comfort

The display provides the user with an accurate information regarding:

- remaining operational time
- consumption of operating materials
- operational cost and expenditure

##### ... are proven many times over

The mechanics and electronics of our systems have been approved in the field for many years. Two examples:

###### Caravanning:

For years fuel level, calculated operating time, etc. of LPG cylinders in caravans have been measured and displayed by the ultrasonic sensor system Sonatic® L. Thereby comfort on the move has been significantly increased.

###### Forklift trucks:

The breakdown of forklift trucks, blocked transportation alleys and delays in the logistic processes are all a thing of the past with the sensor system Sonatic® FLT or the Sonatic® Kits. The fuel gauge for LPG powered forklifts saves money and increases operational reliability.

**We develop and produce ultrasonic sensor systems  
– for various applications  
– for OEM-customers and sales partners**