

Display your vision

MOTOMETER

MOTOSONIC Ultrasound Tank Sensor



With the ultrasonic level sensor, MOTOSONIC you enter a new dimension of measuring content levels because measurement of the liquid level in a tank is done contactless by using ultrasonic technology.

The flexible MOTOSONIC can be used for quite a high number of liquids in various tank shapes.

The ultrasonic level sensor MOTOSONIC generates a high frequency sound wave to measure the time, the wave needs to run to the fluid level and back, after it was reflected by the liquid surface. Based on the measured time and the speed of sound, the distance between the sensor and the liquid surface can be calculated, and by this means the tank content as well.

It is important for the calculation to take also the tank shape into account, just as waves on the surface of the liquid or possibly

upcoming reflections in the tank. Compared with classical level sensors, measurement with the ultrasonic method is very precise, because distance is detected with an accuracy of ± 2.5 mm and a resolution of 1.8 mm.

Moreover, measurement is done contactless to the medium, what avoids abrasion of mechanical parts and increases the lifetime of the sensor. Fixing on the tank is realized by a 54 mm 5-hole-flange or an 80 mm 6-hole-flange adapter (other flanges can also be offered on request).

The electrical connection is realized with a Delphi-connector. By programming a table of interpolation values into the sensor, tank contents of various tank shapes can exactly be displayed on standard gauges.

Contact us now with your individual MOTOSONIC inquiry:

Our team is available for personalized consultation and tailored offers.

Get in touch now to discuss optimizing your tank measurement processes and specific product customizations.

Display your vision

MOTOMETER

MOTOSONIC Ultrasound Tank Sensor

Technical Information

MOTOSONIC 810 with Three-Wire Connection

Three-Wire Connection: Output signal: 0.5 to 4.5 Volts

Technical specifications

Operating voltage: 10 to 30 Volts

Output signal: 3-Wire: 0.5 to 4.5 Volts

(Output impedance 1k to 20 kOhm)

Max. measuring length: 810 mm

Blind area: 50 mm

ESD: 15 KV





Mechanical shock: 18 G Shock

Vibration: 4 G, 8 hours each 3 directions in space

Acoustic cone angle 6 degrees

Operation temperature: -40 to +85 °C

Our various Ultrasound Tank Sensor variants part 1:

	608 043 1017	608 043 1007	608 043 1001	608 043 1013
Produkt Image				
Drawing	Watch Drawing	Watch Drawing	Watch Drawing	Watch Drawing
Length	460 mm	500 mm	541 mm	700 mm
Damping	Middle	Middle	Middle	Fast
Characteristic Line	Linear	Linear	Linear	Linear
Mounting	54 mm 5-hole-flange	54 mm 5-hole-flange	54 mm 5-hole-flange	54 mm 5-hole-flange
Shop Link	Buy now	Buy now	Buy now	Buy now

Our various Ultrasound Tank Sensor variants part 2:

	608 043 1014	608 043 1027	608 043 1033	608 043 1038
Produkt Image				
Drawing	Watch Drawing	Watch Drawing	Watch Drawing	Watch Drawing
Length	810 mm	810 mm	690 mm	810 mm
Damping	Middle	Middle	Middle	Fast
Characteristic Line	Linear	Linear	Linear	Linear
Mounting	54 mm 5-hole-flange	54 mm 5-hole-flange	54 mm 5-hole-flange	54 mm 5-hole-flange
Shop Link	Buy now	Buy now	Buy now	Buy now

Display your vision

MOTOMETER

MOTOSONIC Ultrasound Tank Sensor

Our various Ultrasound Tank Sensor variants part 3:

Part 3	608 043 1039	608 043 1044	608 043 1051	608 043 1059	608 043 1115
Produkt Image					
Drawing	Watch Drawing	Watch Drawing	Watch Drawing	Watch Drawing	Watch Drawing
Length	650 mm	600 mm	420 mm	580 mm	200 mm
Damping	Fast	Middle	Middle	Fast	Middle
Characteristic Line	Linear	Linear	Linear	Linear	Linear
Mounting	54 mm 5-hole-flange	54 mm 5-hole-flange	54 mm 5-hole-flange	54 mm 5-hole-flange	54 mm 5-hole-flange
Shop Link	Buy now	Buy now	Buy now	Buy now	Buy now

Our various Ultrasound Tank Sensor Accessories:

	608 044 1004	608 044 0003	608 044 1005
Produkt Image			
Product Name	Mounting kit LK 80/54 mm for MOTOSONIC	Tank flange adapter, spacer 54 mm 5-hole flange	Accessories Kit with float, 54 mm 5-hole flange
Drawing	Watch Drawing	Watch Drawing	Watch Drawing
Mounting	54 mm 5-hole flange	54 mm 5-hole flange	54 mm 5-hole flange
Shop Link	Buy now	Buy now	Buy now

Special requests? Fill out and send us the configuration document now!

None of the listed products fit your requirements? No worries! Download our configuration document now, fill in your individual requirements for your Motosonic, and send it to info@motometer.de. We will promptly review the feasibility and get back to you as soon as possible to offer you the best solution.