

MOBILE LEVEL MEASUREMENT AND CONTROL

*from the outside
through the tank wall
without any contact to the medium
via ultrasound*

THE MULTITALENT



SONOMETER 32

*level measurement in liquids
distance and position definition
full/ empty control*

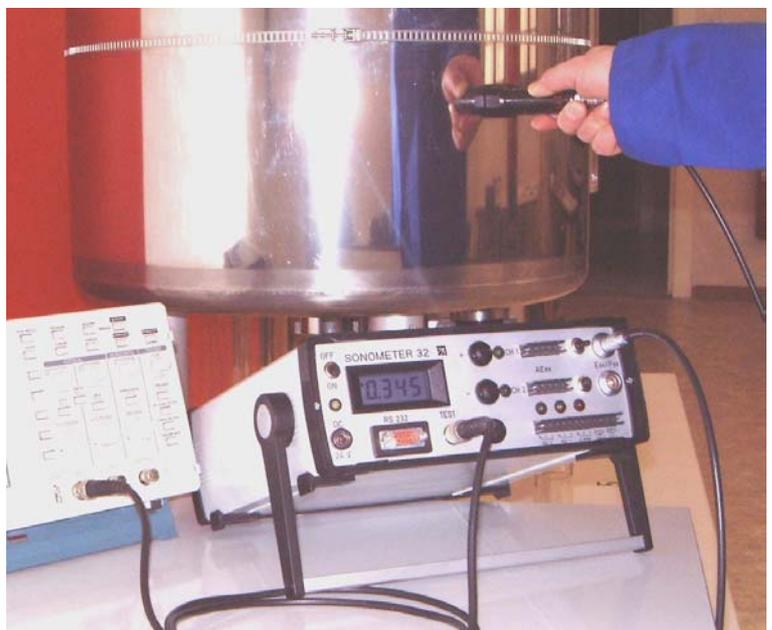
SONOMETER 32

MOBILE LEVEL MEASUREMENT AND CONTROL

Using SONOMETER 32 it is possible to make in-situ controls at liquid-filled tanks and pipes. It is measured through the wall of tank, the same whether it is made of steel, plastics or glass.

Advantages

- Mobile and universal usable; highly productive measurement device with high accuracy.
- The probe has no contact with the product.
- The ultrasonic measurement is harmless.
- The evaluating time of measurement is very short.
- Also high pressure inside the tank does not disturb.
- The accuracy of measurement is not affected because of foam formation at the surface of the liquid.
- There is no hygienic problem with the sensor.
- The measurements can be at toxic, corrosive and aggressive media.
- The sensors do not wear out.
- Measurement at working plants can be without interruption of process.
- Also measurements at tanks with ranges of about > 20 m specific for the respective product are possible.
- Various applications as e. g. mobile level measurement or overflowing controls at tanks and tank lorries respective, detection the filling in pipelines or measurements of sedimentation height in sedimentation tanks, too.
- The possibility of level measurement with changing media by usage of reference probe (second channel).
- It is equipped with function of self-monitoring and alarm output.
- Operation of about 5 hours as self-contained unit



TECHNICAL DATA

principle	without changing usable for different measurement principles; ultrasonic-impulse-echo-principle with coupling at the side or at the tank bottom
measuring transducer	two-channelled
ultrasonic probes	passive sensors as well as sensors with integrated pre-amplifier connectable
coupling of sensor	from the outside at the tank or pipe
cable length of sensor	< 300 m probe with integrated pre-amplifier (type AE) < 10 m passive probe (type E)
tank material	steel, special steel, enamelled steel, other metals, glass, plastics, compound material
settings	all parameters are set via buttons and integrated display
signal evaluation	intelligent optimising of signal; various possibilities of parameter setting for different tasks
service display	relay 1 / relay 2 / alarm / charging control / display
switched outputs	limit value 1, limit value2, alarm (self-monitoring) relay switch contacts (change-over)
current output	0/4 ... 20 mA, invertible
voltage supply	internal 16 NiCd accumulators, plug power unit 28 VDC to charge the accumulators and for operating with mains
dimension/weight	B x T x H: 250 x 250 x 95 mm / 4000 g
connections	terminal screws (plug able), plug connector LEMO OE (IP 68), RS 232 (SUB-D, 9 wired) charging voltage/operation: hollow plug 5,5/2,1
operating temperature	electronics: - 20 ... + 60 °C probes: - 20 ... + 135 °C
accessories/additional	coupling means, probes for mobile usage; fastening material for probes; zero-modem-cable; probe cable; charging power supply