

Compact ultrasonic transmitter

SonarFox® UST 02



- Non-contact level measurement of liquid and solid media
- Specially suitable for sewage treatment plants and power plants
- Very narrow sound cone



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Application For continuous, non-contact level measurement of liquid and solid media with a wide variety of types of consistencies and surface characteristics. Especially suitable for controlling rakes and gates in sewage treatment plants and power plants.

Description The compact SonarFox® UST 02 ultrasonic transmitter consists of a ultrasonic transducer, process connection and housing with screw-on cover. A programming display can be plugged onto the electronics block in the housing. This makes it possible to calibrate the measuring range without time-consuming filling and emptying procedures. The vibration-decoupled ultrasonic transducer is mounted below the process connection. SonarFox® UST 02 is equipped with an output relay for echo loss alarm.

Technical specifications

Measuring range
0/6,000 mm (blocking distance 250 mm)

Measuring accuracy
± 0.2 % FS

Measuring frequency
80 kHz

Sound cone
5°

Operating temperature range
Medium: -30/+80 °C
Ambient: -30/+60 °C

Process pressure
0.3 to 3 bar absolute

Programming display (option)
6-digit display

Process connection
PVDF, G2B

Ultrasonic transducer
PVDF

Supply voltage

AC 10.5–28 V
DC 10.5–40 V

Power input

AC: 4 VA, DC: 3.6 W

Output signal (load)

4–20 mA (max. 600 Ohm), 4-wire

Echo loss alarm

Relay contact: 1 voltage-free changeover contact
Contact rating: AC 250 V, 3 A

Delay

Adjustable 6, 10 or 30 s

Housing

Impact-resistant plastic (PTB),
glass-fibre reinforced

Degree of protection

Housing: IP 67 (EN 60529)

Sensor: IP 68 (EN 60529)

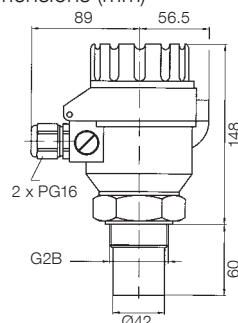
Electrical connections

2 x cable gland PG 16

Options

- Programming display
- Other process connections
- Other materials
- Supply voltage: AC 85–255 V

Dimensions (mm)



DG: E	Part no.	Price €
UST 02 AC 10.5–28 V DC 10.5–40 V	56119	
UST 02 AC 85–255 V	56129	
Programming display	56109	