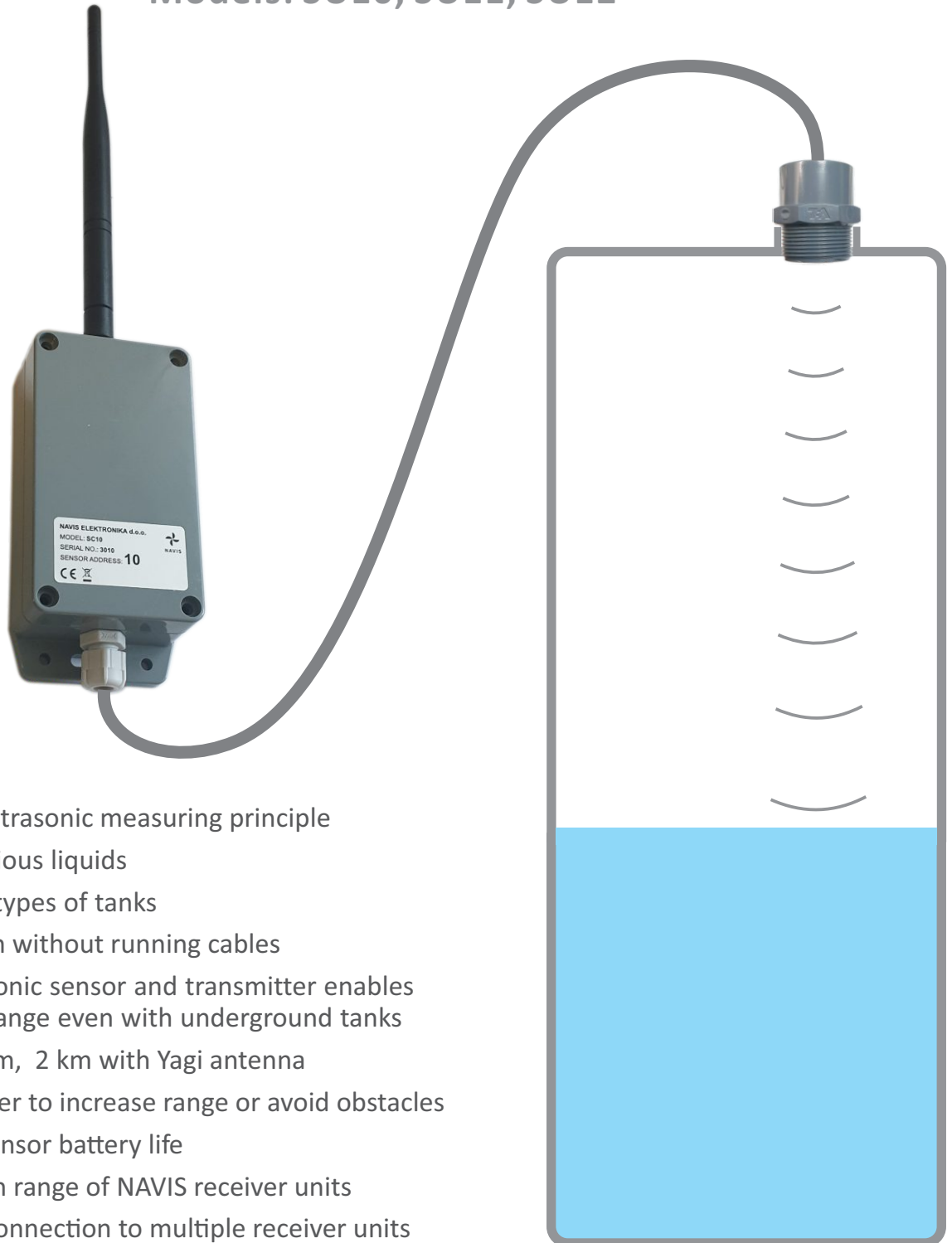




NAVIS

LONG RANGE WIRELESS ULTRASONIC SENSOR

Models: SU10, SU11, SU12



FEATURES

- narrow angle ultrasonic measuring principle
- suitable for various liquids
- suitable for all types of tanks
- easy installation without running cables
- separate ultrasonic sensor and transmitter enables undiminished range even with underground tanks
- range up to 1 km, 2 km with Yagi antenna
- optional repeater to increase range or avoid obstacles
- up to 4 years sensor battery life
- compatible with range of NAVIS receiver units
- simultaneous connection to multiple receiver units



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MOUNTING

The sensor can be installed on all types of containers, tanks or collectors made of different materials. Mount the ultrasonic sensor part into the appropriate connector or holder on the top of the tank. The transmitter is installed nearby, in a suitable place to ensure maximum range. The design with a separate transmitter allows use in underground tanks - sensor is installed on the underground tank, while the transmitter is installed above ground for longer range.

MODELS

- SU10 (1" connection)
- **SU11 (6/4" connection)**
- SU12 (2" connection)

TECHNICAL DATA

Measuring range:	Model SU10	0,08 ... 1,5 m
	Model SU11	0,12 ... 3 m
	Model SU12	0,25 ... 5 m
Level measuring principle:	narrow angle Ultrasonic	
Ultrasonic beam angle:	7°	
Level measurement period:	adjustable - 5 seconds, 1 minute, 5 minutes	
Measuring resolution:	0,5 cm	
Accuracy:	+/- 1%	
Temperature operating range:	-20 ... +50 °C	
Transmitting frequency:	868 MHZ	
Output power:	+14 dB (25 mW)	
Antenna connection:	50 Ohm, SMA connector	
Range:	up to 1 km (2 km with Yagi antenna), depends also on receiver	
Power supply:	battery 3 x 1,5V AA Mignon (not included)	
Battery lifetime:	4 years (version with 10 years Lithium battery available)	
Sensor-transmitter cable length:	2,5 m	
Housing, transmitter:	115 x 65 x 41 mm, IP65, ABS	

OPERATION

An ultrasonic sensor at the top of the tank measures the distance to the surface of the liquid and sends data to the receiver via a wireless connection. With the ultrasonic measuring principle, the sensor has no contact with the liquid surface and has no moving parts. Therefore, no maintenance is required and the operation is very reliable. Each sensor has its own address, so that interference between individual sensors is not possible. You can monitor the level continuously or occasionally on different NAVIS receiving units.

COMPATIBLE NAVIS DISPLAYS/RECEIVERS:



LW3/D



LW5/D



LW410/D



LW410/D



LW110 4-20/REC

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