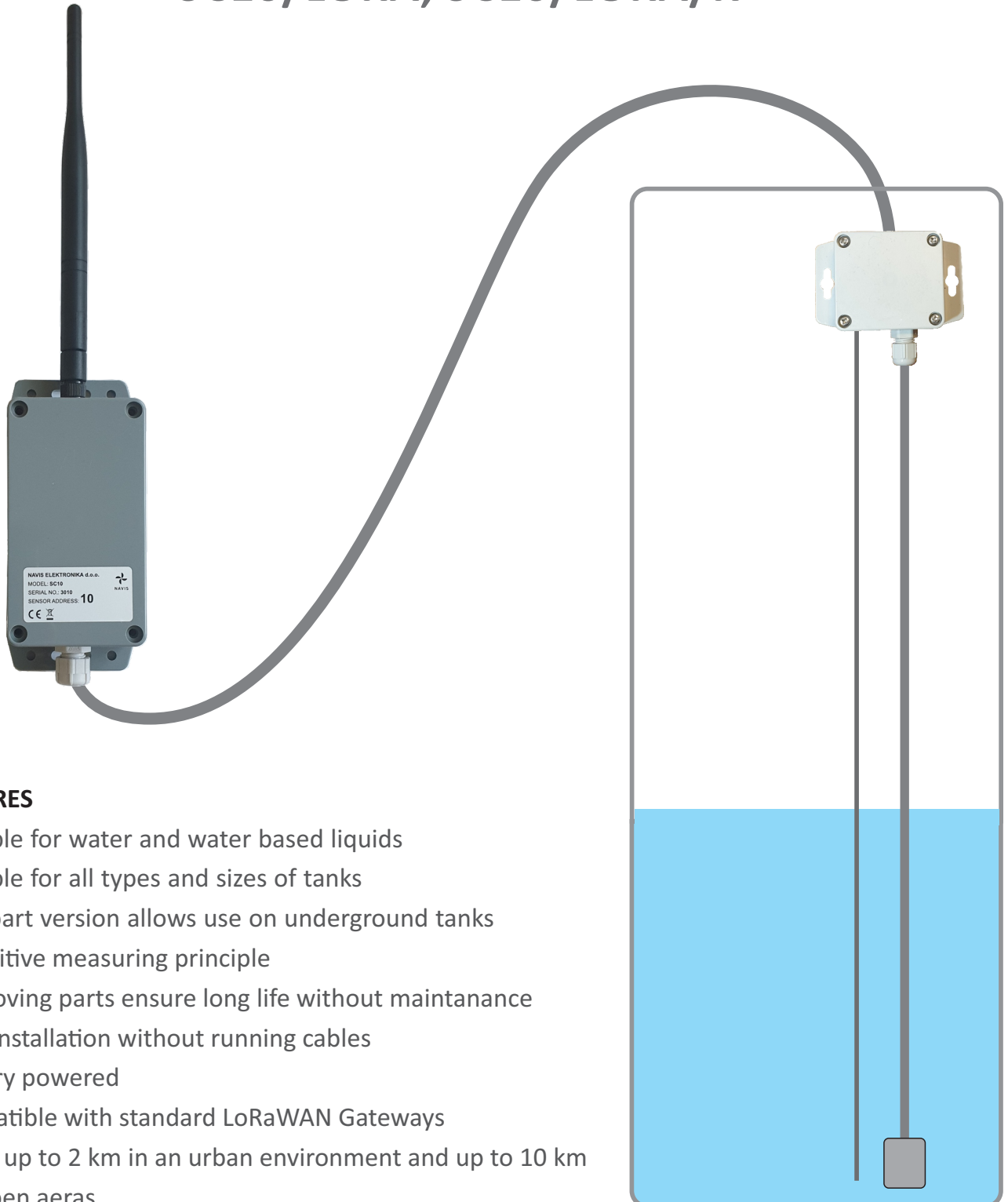




NAVIS

LORAWAN WIRELESS TANK LEVEL SENSOR SC10/LORA, SC10/LORA/R



FEATURES

- suitable for water and water based liquids
- suitable for all types and sizes of tanks
- two-part version allows use on underground tanks
- capacitive measuring principle
- no moving parts ensure long life without maintenance
- easy installation without running cables
- battery powered
- compatible with standard LoRaWAN Gateways
- range up to 2 km in an urban environment and up to 10 km on open areas



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INSTALLATION

The sensor is mounted on top of the tank so that the measuring cable hangs freely to the bottom of the tank. Sensor can be installed onto shaft wall or tank cap. The design with a separate transmitter allows use in underground tanks - sensor is installed inside the underground tank, while the transmitter is installed above ground for longer range.

MODELS

- 1 SC10/LORA (integrated transmitter)
- 2 SC10/LORA/R (separated transmitter)

TECHNICAL DATA

Tank height:	0,5...4 m (with measuring cable on request, up to 10 m)
Level measuring principle:	RF capacitive
Data transmitting interval:	configurable: 1min, 1h, 8h
Measuring resolution:	0,1%
Accuracy:	+/- 3%
LoRaWAN protocol:	v1.0.3 Class A
LoRaWAN frequency:	EU868
LoRaWAN ADR:	enabled
LoRaWAN join:	OTAA
Output power:	+14 dB (25 mW)
Antenna connection:	50 Ohm, SMA connector (SC10/LORA/R only)
Range:	up to 2 km in an urban environment, up to 10 km on open aeras
Power supply:	battery 2 x 1,5V AA Mignon (not included)
Battery lifetime:	up to 5 years
Measuring cable:	4 m (up to 10 m on request)
Sensor-transmitter cable (SC10L/R):	5 m (up to 25 m on request)
Housing, sensor (SC10L/R):	58 x 64 x 35 mm, IP67, ABS
Housing, transmitter:	115 x 65 x 41 mm, IP65, ABS

OPERATION

The sensor uses capacitive measuring principle with measuring wire and inox braid which hangs from the top to the bottom of the tank. It has no moving parts, which ensures reliable operation throughout its lifetime. Sensor continuously measures level and transmitter sends data to LoRaWAN network.



SENSOR DATA FLOW TROUGHGT LORAWAN NETWORK

