



NAVIS

LEVELWATCH S12

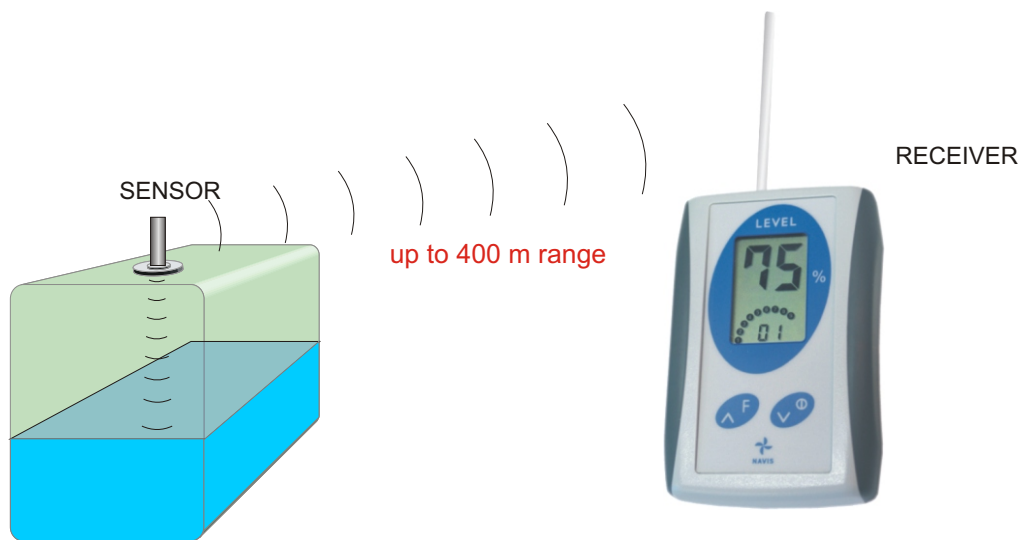
ULTRASONIC WIRELESS TANK LEVEL MONITOR



- ▶ **economical wireless monitoring of various liquids**
- ▶ **displaying of level in % volume and graphically**
- ▶ **long range - up to 400 m**
- ▶ **hand-held display unit suitable also for permanent mounting**
- ▶ **easy and quick installation without running wires**
- ▶ **battery operated**
- ▶ **battery life up to 8 years**
- ▶ **optical low and high level alarm**

Levelwatch S12 is ultrasonic wireless monitor intended for measuring the level of liquid inside atmospheric tanks. It continuously measures and displays the content of various liquids in tanks that are up to 3 m (6 m) high. System consists of wireless ultrasonic sensor and receiver/display unit. Both units are battery operated. The receiver can be placed at the

distance up to 400 m from the sensor. The level is displayed numerically (volume percentage) and graphically. The LED signal flashes when the level drops or arises the preset level. Since the receiver is battery powered it can be placed independently from the power source. Water resistant version of the receiver intended for mounting outdoors is also available.



MOUNTING

The sensor can be placed on all kinds of vessels, tanks or containers made of various materials. Mounting of the sensor is very easy and can be done by the user himself. It is performed by screwing the sensor into 1", 1 ½" or 2" fitting (depending on model) on the top of the tank.

The sensor is waterproof and can be mounted also in the open field.

For underground tanks the version with external antenna with 2 m cable is recommended for maximum range.

The receiver can be used as a portable or a stationary unit, mounted anywhere within the reach of sensor signal.

OPERATION

Ultrasonic sensor measures the distance from the top of the tank to the upper level of the liquid, and sends the information via wireless connection to the receiver. Based on the preprogrammed measures of the tank the receiver converts the distance to volume percentage that is presented on the LCD display. The sensor has no contact with the liquid and takes measurements from safe distance. It therefore needs no maintenance and its operation is highly reliable.

The sensor takes measurements every five minutes. The level data refreshing rate on the display can be set from 5 minutes to maximum one hour. Each sensor has individual coding which prevents interference with other sensors.

TECHNICAL DATA

Tank height:	1" sensor - max 200 cm 1 ½" sensor - max 300 cm (basic type) 2" sensor - max 550 cm
Displaying of level:	in % and 12 segment graph
Resolution:	1 %
Data refresh rate:	5 min ... 1 hour
Tank shape	3 different shapes
Measurement principle:	ultrasonic
Angle of ultrasonic beam:	6°
Transmission distance:	up to 400 m
Operating Frequency:	868 MHz
Battery - receiver:	2 x 1,5V AA Mignon
Battery - sensor:	2 x 1,5V AA Mignon (option Lithium battery)
Battery life - receiver:	max. 3 years (depend on data refresh rate)
Battery life - sensor:	up to 3 years (8 years with Lithium battery)
Accuracy:	1%
Sensor Height:	210 mm
Dimension, monitor:	94 x 63 x 23 mm

MODELS: LW S12-6/4"; LW S12-1"; LW S12-2"

WARRANTY: 12 months

OPTIONS: separate sensor antenna with 2 m cable; Lithium sensor battery