

# LONG RANGE WIRELESS HYDROSTATIC PRESSURE LEVEL SENSOR

## FEATURES

- drop in hydrostatic pressure sensor
- suitable for various clean liquids
- suitable for all types of tanks
- easy installation without running cables
- range up to 1 km, 2 km with Yagi antenna
- optional repeater to increase the range or avoid obstacles
- up to 4 years sensor battery life
- compatible with range of NAVIS receiver units
- simultaneous connection to multiple display/receiver units



## INSTALLATION

SP10 consists of a hydrostatic sensor and a transmitter to which the sensor is connected. The sensor lies at the bottom of the tank and is connected by a cable to the transmitter, which is placed on top of the tank.



## OPERATION

The principle of level measurement is based on measuring the pressure of the water column. With this principle, there are no moving parts, which ensures reliable operation over the entire lifetime. The sensor measures the level every 5 minutes and transmits the data via a wireless connection. Each sensor has its own address, so that interference between individual sensors is not possible. You can monitor the level continuously or periodically on various NAVIS receiver units.

## MODELS ( min. range / max range)

- SP10-20 (0-0,8 m / 0-2 m)
- **SP10-35** (0-1 m / 0-3,5 m)
- SP10-50 (0-1,5 m/0-5 m)
- SP10-XX (up on request)

## TECHNICAL INFORMATION

Operating range (H <sub>2</sub> O height):	0...20 m (range depends on the area of the connected sensor)
Level measurement principle:	hydrostatic pressure
Frequency of measurement:	every 5 minutes
Frequency of sending data:	every 5 seconds
Measurement resolution:	0.1%
Accuracy:	+/- 1% F.S.
Operating frequency:	868 MHz
Output power:	+14 dB (25 mW)
Antenna output:	50 Ohm, SMA connector
Range:	up to 1 km (2 km with Yagi antenna) - also depends on the type of transmitter
Power supply:	battery, 3 x 1.5V AA Mignon (not included)
Battery life:	up to 3 years
Cable length, sensor-transmitter:	2 x sensor range (6 m for SP10-30 sensor)
Hydrostatic pressure transducer:	155 x diameter 27 mm, IP67, Stainless steel
Transmitter housing:	115 x 65 x 41 mm, IP65, ABS

## COMPATIBLE NAVIS DISPLAYS/RECEIVERS:



LW3/D



LW5/D



LW410HUB/D



LW410/D



LW110 4-20/REC