

# Ultrasonic Model PRGEN-LVL

SMARTREK Datasheet Ultrasonic

## Why use the Ultrasonic A-Link

Knowing and understanding tank level is a vitally important measurement for various processes and applications. Live data on tank-level conditions enables accurate budgeting, planning, and utilization of the tank's contents. Atrax-based solutions allow you access to an alarm system as well as live monitoring.

Coupled with the ATRAX monitoring system, it can:

- Get real time insight into your equipment, send alarms, and create reports easily.
- Improve efficiency & management with the ability to monitor equipment remotely regardless of the location.
- Get the assurance that the equipment is running within normal parameters & avoid system failure.
- Be notified quickly and remotely of any problems in your system.



Figure 1: Ultrasonic level node

## Applications

- Tank level measurement & control
- Snow depth
- Water and Wastewater applications
- Object detection
- River level monitoring
- Volume measurements

## Features

- Up to 10m level range
- High-performance ultrasonic rangefinder
- Up to 10km wireless range
- Robust design for outdoor environments
- Waterproof sonar
- Up to 5 years battery life expectancy

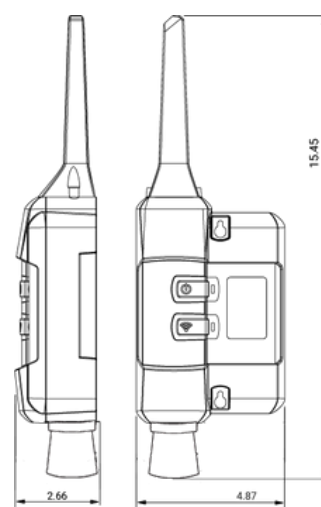
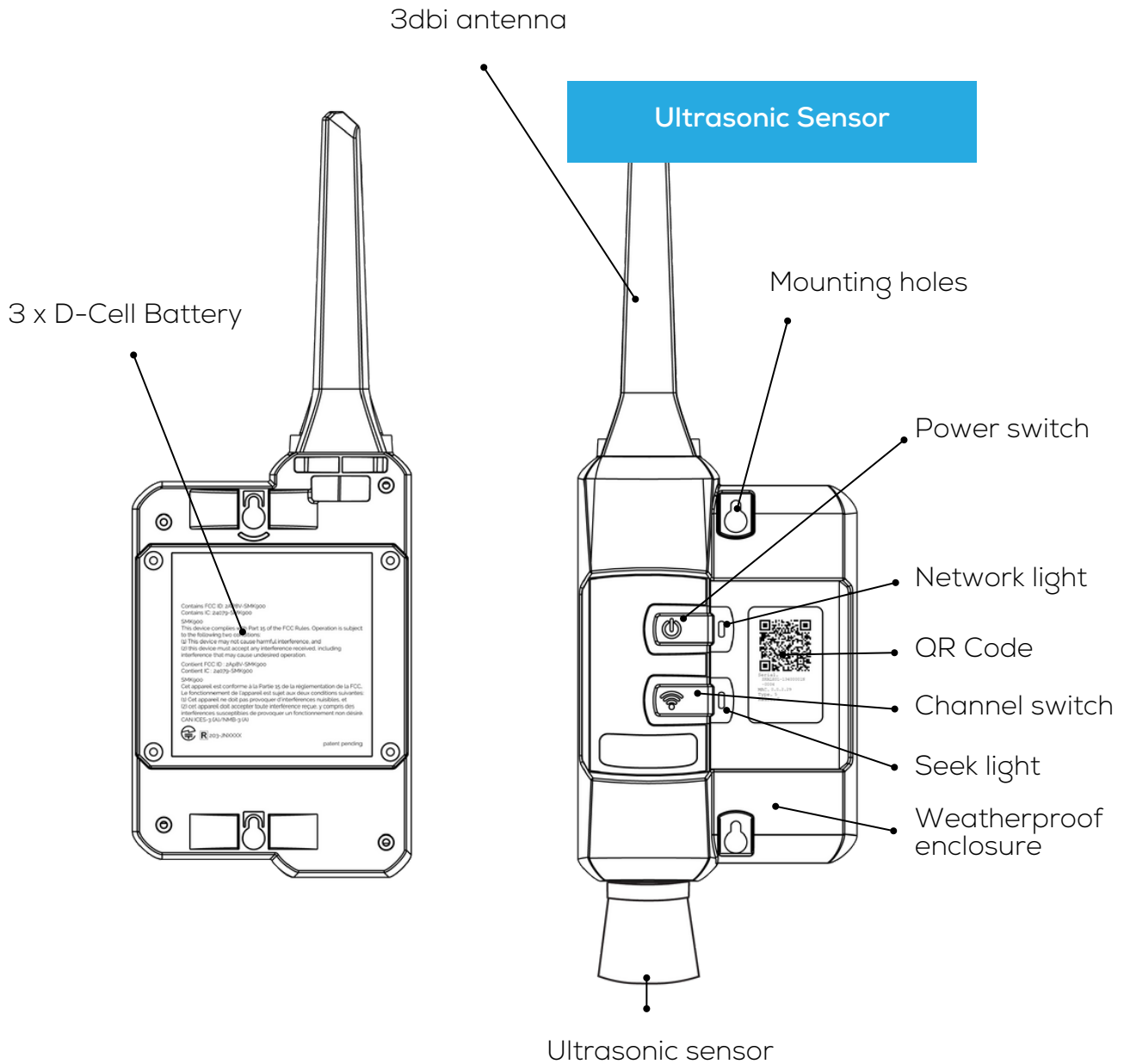


Figure 2: Technical drawing



**General specifications**

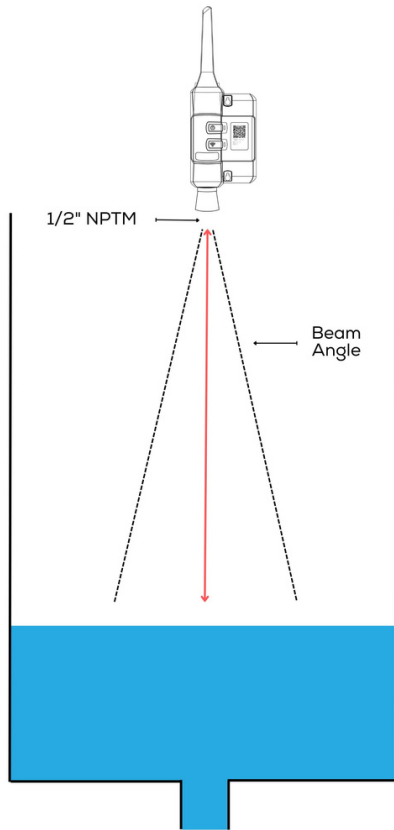
Specifications	Performance
Frequency Band	North America: 902-928MHz Europe, Australia/ NZ: 860MHz Japan: 925MHz
Wireless technology	SpiderMesh
Encryption	AES-128
Range	Up to 10km/7Miles (LOS*) 500m average (NOLS**) 300m (decidious forest)
Max hop count	30 (total range is 30x node-to-node range)
Max number of A-Link on network	Unlimited

\*LOS: line of sight \*\*NLOS: near line of sight

**Technical specifications**

Specifications	Description	Performance
Height unit	mm, m, cm, in, ft	
Operating temp.	°C	-40 to 65
Minimum length	cm	25
Maximum length	m	7.65
Accuracy	%	1
Resolution	mm	10
Sound waves frequency	KHz	42

### Connecting the Ultrasonic Node



### Ordering information

