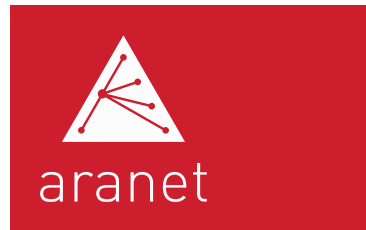


# NH<sub>3</sub> SENSOR



- 1 Measures ammonia concentration
- 2 IP67 casing
- 3 Up to 3 km / 1.9 mi range
- 4 Up to 8.9 years of battery life

For use in laboratories, livestock and poultry farms, sewage treatment plants to monitor the leakage of ammonia gas and give an alarm to protect humans and animals

## Aranet NH3 sensor

TDSPG101 (EU)

Measures ammonia concentration in the air.

TDSPG1U1 (NA)

TDSPG1R1 (RU)

### Sensor performance

Range	0 - 100 ppm
Maximum overload	200 ppm
Resolution	0.1 ppm
Humidity compensation range	15 – 90 % RH
Accuracy	10% of reading

### Radio parameters

Line of sight range	3 km / 1.9 mi
Supported ISM bands	EU868, NA915
Transmitter power	14 dBm
Data transmission (TX) interval	1, 2, 5 or 10 minutes <sup>1</sup>
Data protection	XXTEA encryption
Compatible base stations	Aranet PRO

### General

Ingress Protection code	IP67
Maximum operating temperature range	-40 °C to 50 °C (-40 °F to 122 °F)
Dimensions	Ø 43 x 147 mm (Ø 1.7 x 5.8 in)
Weight <sup>2</sup>	93 g (3.3 oz)
Enclosure material	ASA plastic
Included in the box	1 AA Alkaline battery, string

### Power 1 AA battery

Type	Alkaline <sup>3</sup>	Lithium <sup>4</sup>
Operating temperature	-20 °C to 50 °C (-4 °F to 122 °F)	-40 °C to 50 °C (-40 °F to 122 °F)
TX interval	Battery life @ 20 °C (68 °F)	
1 minute	1.0 years	1.3 years
2 minutes	1.9 years	2.5 years
5 minutes	4.0 years	5.4 years
10 minutes	6.2 years	8.9 years

### Compliance

CE	Conformité Européenne
IC	Innovation, Science and Economic Development Canada
FCC	Federal Communications Commission (USA)

<sup>1</sup> Due to regulatory requirements 1 minute interval in Russia is not available.

<sup>2</sup> Weight with Alkaline AA Fujitsu LR6G07 Premium battery.

<sup>3</sup> AA Fujitsu LR6G07 Premium battery used for tests and calculations.

<sup>4</sup> AA Energizer L91 Ultimate Lithium battery used for tests and calculations.