Aranet Ultrasonic Distance sensor



- Accurate distance measurement
- 2 Up to 8 years of battery life
- 3 IP67 casing

Measures the level of a liquid or non-liquid material in a container, e.g. grain level in a silo.

Aranet Ultrasonic Distance sensor	TDSPDM02 (EU)
For level monitoring of liquid and non-liquid materials	TDSPDMU2 (NA)
	TDSPMR2 (RII)

Sensor performance		
Range	0.5 – 10 m	
Resolution	0.01 m	
Accuracy	1 % of reading	

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

General	
Ingress Protection code	IP67
Maximum operating	-40 °C to 60 °C
temperature range	(-40 °F to 140 °F)
Dimensions	Ø 77.2 x 561 mm
	(Ø 3.04 x 22.1 in)
Weight <sup>1</sup>	310 g (11 oz)
Enclosure material	ASA, PVC, Aluminum
Included in the box	1 AA alkaline battery,
	polyester string

Pov	ver	1 AA battery	
Тур	e	Alkaline <sup>2</sup>	Lithium <sup>3</sup>
Оре	erating	-20 °C to 55 °C	-40 °C to 60 °C
tem	perature	(-4 °F to 131 °F)	(-40 °F to 140 °F)
TX i	nterval	Battery lifetime a	nt 20 °C (68 °F) <sup>4</sup>
1	minute	0.8 years	1.0 years
2	minutes	1.5 years	1.9 years
5	minutes	3.3 years	4.5 years
10	minutes	5.7 years	8.1 years

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

<sup>&</sup>lt;sup>1</sup> Weight with alkaline AA Fujitsu LR6G07 Premium battery.

 $<sup>^{\</sup>rm 2}$  AA Fujitsu LR6G07 Premium battery used for tests and calculations.

 $<sup>^{\</sup>rm 3}$  AA Energizer L91 Ultimate Lithium battery used for tests and calculations.

<sup>&</sup>lt;sup>4</sup> Battery lifetime data has been obtained by mathematical extrapolation and is provided for descriptive purposes only and is not intended to make or imply any guarantee or warranty.