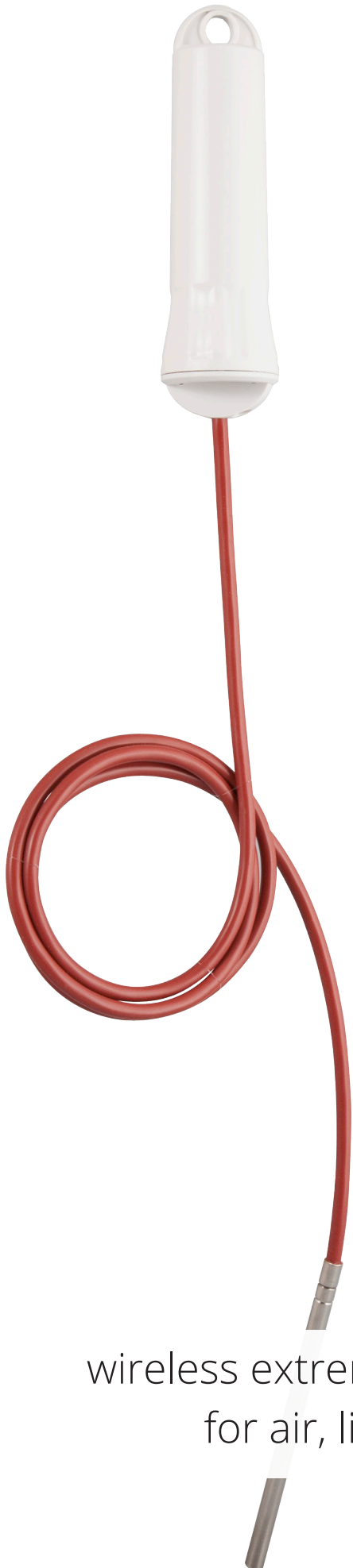# PT100 SENSOR

aranet

1 monitors air, liquid, and solid surface temperature

2 up to 3km / 1.9mi range

3 IP68, designed to endure the harshest environments

4 up to 10 meters of probe length

5 Temperature from -50°C (-58°F) up to 180°C (356°F)

wireless extreme temperature monitoring for air, liquid, or solid surface.

Aranet PT100 Sensor Datasheet

Measurements	Temperature	
Line of Sight Range	3km / 1.9mi	
Operating environment	Indoor and Outdoor use	
Transmitter power	14 dBm	
Frequency	Depends on base station instructions	
Temperature measurement range	-50°C to 180°C (-58°F to 356°F)	-190°C to 260°C (-310°F to 500°F)
Probe type	Class A PT100	
Temperature measurement accuracy	from +/- 0.7°C (1.2°F) @0°C (@32°F) to +/- 1.0°C (1.8°F) @180°C (356°F)	
Response time	T63% - 45 seconds at 1 m/s airflow	
Data Transmission	1, 2, 5, 10 minutes*	
Data Protection	Data encryption	
Power options	1 AA Alkaline battery (Zn/Mn0$_2$) 1 AA Lithium battery (Li/FeS$_2$)	
Battery life @20°C / 68°F	Up to 7 years with Alkaline battery Up to 10 years with Lithium battery	
Operating temperature	-20°C to 55°C/ -4°F to 131°F with Alkaline battery -40°C to 60°C/ -40°F to 140°F with Lithium battery	
Dimensions	35mmØ x 120mm / 1.4"Ø x 4.7"	
Weight	100g (3.5oz) w Alkaline battery w 1m(3.2ft) cable w PT100 probe 92g (3.2oz) w Lithium battery w 1m (3.2ft) cable w PT100 probe	
Construction	ASA Plastic	
Probe length	1m (3.2ft)	
Protection class	IP68	
Marking	CE, FCC	
Compatible base stations	Aranet PRO and Aranet MINI	
Included	1 AA Alkaline battery, string	
Part number EU NA RU	TDSPT006.010 TDSPT0U6.010 TDSPT0R6.010	TDSPTE06.010 TDSPTEU6.010 TDSPTER6.010

* 1, 2, 5, 10 min interval supported from Aranet PRO v1.3.2 and 2, 5, 10 min from Aranet MINI v3.20.