

T/RH IP68 SENSOR



- ① monitors temperature and relative humidity
- ② IP68 casing
- ③ up to 3km / 1.9mi range
- ④ designed for dusty and humid locations
- ⑤ GORE membrane for accurate readings

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Aranet T/RH IP68 sensor Datasheet	
Measurements	Temperature Relative Humidity
Line of Sight Range	3km / 1.9mi
Operating environment	Indoor and Outdoor use
Transmitter power	14 dBm
Frequency	Depends on base station instructions
Measurement Range	-40°C to 60°C (-40°F to 140 °F) 0% to 100%
Measurement accuracy	-10°C to 60°C / 14°F to 140°F 0.4°C / 0.72°F -20°C to -10°C / -4°F to 14°F 0.6°C / 1.08°F -40°C to -20°C / -40°F to 14°F 0.9°C / 1.62°F 0 to 80% @ 30°C (86 °F) 4%RH 80% to 95% @ 30° C(86°F) 6%RH
Response time	T63% - 8 minutes at 1 m/s airflow
Data Transmission	1, 2, 5, 10 minutes*
Data Protection	Data encryption
Power options	1 AA Alkaline battery (Zn/MnO 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
Operating humidity	0% to 100%**
Dimensions	35mmØx120mm/ 1.4inØx4.7in
Weight	59g (2.1oz) with Alkaline battery 51g (1.8oz) with Lithium battery
Construction	ASA Plastic
Protection class	IP68
Marking	CE, FCC
Compatible base stations	Aranet PRO and Aranet MINI
Included	1 AA Alkaline battery, string
Part number	TDSPT801 (EU), TDSPT8U1 (NA), TDSPT8R1 (RU)

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

** For best accuracy, recommended operating range is 20% to 80% RH and 5°C to 60°C (41°F to 140°F). Prolonged operation beyond these ranges may result in a shift of sensor relative humidity reading, with slow recovery time.