

T/RH SENSOR WITH CONVECTION SHIELD



aranet



- ① measures temperature & relative humidity
- ② protects measurements from sun radiation
- ③ IP68 casing
- ④ up to 10 years of battery life
- ⑤ designed for greenhouse environment

Convection Radiation Shield in combination with temperature & relative humidity sensor is a unique solution, provides precise air temperature measurements for the greenhouse environment.

Aranet T/RH sensor with Convection Radiation Shield

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	Temperature (-40°C to 60°C / -40°F to 140 °F) Relative humidity (0% to 100%)	
Temperature measurement accuracy	-10°C to 60°C / 14°F to 140°F -20°C to -10°C / -4°F to 14°F -40°C to -20°C / -40°F to 14°F	0.4°C / 0.72°F 0.6°C / 1.08°F 0.9°C / 1.62°F
Response time	T63% - 1 minute at 0 m/s airflow	
Relative Humidity measurement accuracy	0 to 80% @ 30°C / 86°F 80% to 95% @ 30°C / 86°F	4%RH 6%RH
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% non-condensing**	
Dimensions	80mmØx660mm/ 3.1inØx26in	
Weight	230g (8.1oz) with Alkaline battery 222g (7.8oz) with Lithium battery	
Construction	ASA Plastic (Sensor), Polypropylene (pipe)	
Protection class	IP68	
Marking	CE, FCC	
Compatible base stations	Aranet PRO and Aranet MINI	
Included	1 AA Alkaline battery, string	
Part number	TDSPT009 (EU), TDSPT0U9 (NA), TDSPT0R9 (RU)	

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

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