T/RH SENSOR

aranet

1. measures temperature and relative humidity
2. up to 3km / 1.9mi range
3. IP42 class
4. up to 10 years of battery life
5. flexibility of installation

business critical information for food manufacturing, warehouses / storage facilities, horticulture, building management and others.

Aranet T/RH 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	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% - 4 minutes at 1 m/s airflow	
Relative Humidity measurement accuracy	0 to 80% @ 30°C / 86°F 80% to 95% @ 30°C / 86°F	4% 6%
Data Transmission	1, 2, 5, 10 minutes**	
Data Protection	Data encryption	
Power options	2 AAA Alkaline batteries ($Zn/Mn0_2$) 2 AAA Lithium batteries (Li/FeS_2)	
Battery life @20°C / 68°F	Up to 7 years with Alkaline batteries Up to 10 years with Lithium batteries	
Operating temperature	-20°C to 55°C / -4°F to 131°F with Alkaline batteries -40°C to 60°C / -40°F to 140°F with Lithium batteries	
Operating humidity	0% to 100% non-condensing*	
Dimensions	115x44x25mm / 4.5″×1.7″×1″	
Weight	65g / 2.3oz with Alkaline batteries 57g / 2oz with Lithium batteries	
Construction	ASA Plastic	
Protection class	IP42	
Marking	CE, FCC, IC	
Compatible base stations	Aranet PRO and Aranet MINI	
Included	2 AAA Alkaline batteries, string	

* 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.

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