

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/MnO 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.

Terms of use

The Customer is obliged to guarantee the usage, maintenance and preservation of the Equipment at their own expense in a way that excludes the Equipment's theft, loss, destruction, harming and/or damaging (including as a result of mechanical damages, moisture, liquid related damages, lightning and/or other similar events). Sensors are made to be placed vertically (with the ventilation opening facing down) thus being resistive to humidity.