## T/RH SENSOR WITH CONVECTION SHIELD





- measures temperature & relative humidity
- protects measurements from sun radiation
- 3 IP68 casing
- 4 up to 10 years of battery life
- 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.

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°E to 140°F) Relative humidity (0% to 100%)         Temperature measurement accuracy       -10°C to 60°C / 14°F to 140°F (0.6°C / 10.8°F) (0.6°C / 10.8	Aranet T/RH sensor with C	onvection Radiation Shield		
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 to 14°F to 16°C / -70°E to 140°F to 14°F to 16°C / -70°E to 140°F to 14°F to 16°C / -70°E to 10°C / -40°E to 14°F to 16°C / -70°E to 10°C fo 20°C / -40°E to 14°F to 16°C fo 30°C / -80°F to 16°C fo 30°C	Measurements			
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 -40°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  Response time T63% -1 minute at 0 m/s airflow  Relative Humidity 0 to 80% @ 30°C / 86°F 49RH  measurement accuracy 80% to 95% @ 30°C / 86°F 69RH  Data Transmission 1, 2, 5, 10 minutes*  Data Protection Data encryption  Power options 1, AA Alkaline battery (Zn/Mn0.) 1, AA Lithium battery (Li/Fe5.)  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 80mm@x660mm/ 3.1in@x26in  Weight 230g (8.10z) with Alkaline battery -222g (7.80z) with Lithium battery  Construction ASA Plastic (Sensor), Polypropylene (pipe)  Protection class 1P68  Marking CE, FCC  Compatible base stations Aranet PRO and Aranet MINI  Included 1.4A Alkaline battery, string	Line of Sight Range	3km / 1.9mi		
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 0.4°C / 0.72°F 0.6°C / 1.08°F -40°C to -20°C / -40°F to 14°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 40°RH         Boat Transmission       1, 2, 5, 10 minutes*         Data Protection       Data encryption         Power options       1 AA Alkaline battery (Zn/Mn0.) 1 AA Lithium battery (Lit/F65.)         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 (8.10z) with Alkaline battery -222g (7.80z) 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	Operating environment	Indoor and Outdoor use		
Measurement Range       Temperature (-40°C to 60°C / -40°F to 140 °F) Relative humidity (0% to 100%)       1 0°C to 60°C / 14°F to 140°F 0.4°C / 0.72°F 0.6°C / 1.08°F 0.6°C / 1.08°F 0.9°C / 1.62°F         Temperature measurement accuracy       -10°C to 60°C / 14°F to 14°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°R 4%RH         Measurement accuracy       80% to 95% @ 30°C / 86°F 60%RH         Data Transmission       1, 2, 5, 10 minutes*         Data Protection       Data encryption         Power options       1 AA Alkaline battery (Zn/Mn0₃) 1 AA Lithium battery (Li/Fe5₃)         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       80mm@x660mm/ 3.1in@x26in         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 ba	Transmitter power	14 dBm		
Relative humidity (0% to 100%)  Temperature measurement accuracy  -10°C to 60°C / 14°F to 140°F	Frequency	Depends on base station instructions		
accuracy       -20°C to -10°C / -4°F to 14°F o .0°C / 1.08°F o .0°C / 1.08°F o .0°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 o .80% RH       4%RH         Data Transmission       1, 2, 5, 10 minutes*       6%RH         Data Protection       Data encryption       1 AA Alkaline battery (Zn/Mn0.2) rack library (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 with Lithium battery         Operating humidity       0% to 100% non-condensing**         Dimensions       80mm@x660mm/ 3.1in@x26in         Weight       230g (8.10z) with Alkaline battery 222g (7.80z) with Lithium battery         Construction       ASA Plastic (Sensor), Polypropylene (pipe)         Protection class       1P68         Marking       CE, FCC         Compatible base stations       Aranet PRO and Aranet MINI         Included       1 AA Alkaline battery, string	Measurement Range			
Relative Humidity measurement accuracy 80% to 95% @ 30°C / 86°F 800% to 95% end of 95% to 95% end of 95%		-20°C to -10°C / -4°F to 14°F	0.6°C / 1.08°F	
measurement accuracy       80% to 95% @ 30°C / 86°F       6%RH         Data Transmission       1, 2, 5, 10 minutes*         Data Protection       Data encryption         Power options       1 AA Alkaline battery (Zn/Mn0.) 1 AA Lithium battery (Li/FeS.)         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       80mm@x660mm/ 3.1 in@x26in         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	Response time	T63% - 1 minute at 0 m/s airflow		
Data ProtectionData encryptionPower options1 AA Alkaline battery (Zn/Mn02) 1 AA Lithium battery (Li/FeS2)Battery life @20°C / 68°FUp to 7 years with Alkaline battery Up to 10 years with Lithium batteryOperating 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 batteryOperating humidity0% to 100% non-condensing**Dimensions80mm@x660mm/ 3.1in@x26inWeight230g (8.1oz) with Alkaline battery 222g (7.8oz) with Lithium batteryConstructionASA Plastic (Sensor), Polypropylene (pipe)Protection classIP68MarkingCE, FCCCompatible base stationsAranet PRO and Aranet MINIIncluded1 AA Alkaline battery, string				
Power options  1 AA Alkaline battery (Zn/Mn02) 1 AA Lithium battery (Li/FeS2)  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  O% to 100% non-condensing**  Dimensions  80mmØx660mm/ 3.1 in Øx26in  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	Data Transmission	1, 2, 5, 10 minutes*		
Battery life @20°C / 68°F Up to 7 years with Alkaline battery Up to 10 years with Alkaline battery Operating temperature	Data Protection	Data encryption		
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	Power options	2		
Operating humidity O% 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	Battery life @20°C / 68°F			
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	Operating temperature	· · · · · · · · · · · · · · · · · · ·		
Weight230g (8.1oz) with Alkaline battery 222g (7.8oz) with Lithium batteryConstructionASA Plastic (Sensor), Polypropylene (pipe)Protection classIP68MarkingCE, FCCCompatible base stationsAranet PRO and Aranet MINIIncluded1 AA Alkaline battery, string	Operating humidity	0% to 100% non-condensing**		
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	Dimensions	80mm@x660mm/ 3.1in@x26in		
Protection class IP68  Marking CE, FCC  Compatible base stations Aranet PRO and Aranet MINI Included 1 AA Alkaline battery, string	Weight	· ·		
MarkingCE, FCCCompatible base stationsAranet PRO and Aranet MINIIncluded1 AA Alkaline battery, string	Construction	ASA Plastic (Sensor), Polypropylene (pipe)		
Compatible base stations Aranet PRO and Aranet MINI Included  1 AA Alkaline battery, string	Protection class	IP68		
Included 1 AA Alkaline battery, string	Marking	CE, FCC		
<i>y</i> . 0	Compatible base stations	Aranet PRO and Aranet MINI		
Part number TDSPT009 (EU), TDSPT0U9 (NA), TDSPT0R9 (RU)	Included	1 AA Alkaline battery, string	1 AA Alkaline battery, string	
	Part number	TDSPT009 (EU), TDSPT0U9 (NA), TDSPT0R9 (RU)		

 $<sup>\</sup>star$  1, 2, 5, 10 min interval supported from Aranet PRO v1.3.2 and 2, 5, 10 min from Aranet MINI v3.20.

<sup>\*\*</sup> 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.