



Calibration Certificate



AMBIENT TEMPERATURE & HUMIDITY SENSOR

Intelligent Ambient Temperature & Humidity sensor with LoRa Technology. Adopts the next generation of Sensirion's temperature and humidity sensor, which builds on a new SMOsensor with improved accuracy, high reliability, long-term stability and industry-proven technology with a track record of more than 15 years.

Sensor implementations:



WTP/WWTP/
WATER SUPPLY



PUMP HOUSE



INDUSTRIAL ESTATE



CHEMICAL INDUSTRY



MANUFACTURER



Rukan Crown, Blok A No.25, Jl. Green Lake City Boulevard, Tangerang, Banten 15147



+62 813 9999 1485



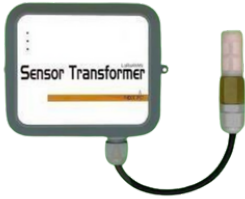
iki@weiotics.io

<https://weiotics.io/>



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AMBIENT TEMPERATURE SENSOR



The temperature sensor is crafted for effortless measurement and monitoring of ambient temperature and humidity. It boasts a plug-and-play installation, including a built-in LoRa communication module for seamless wireless data transmission. Moreover, it provides optional sensor probes to cater to different accuracy requirements for diverse applications. The sensor cable length is extendable up to 10 meters.

Features

- Built-in temperature and humidity sensor
- Built-in LoRa communication module. The data can be acquired wirelessly transmitted
- Fully Calibrated, linearized
- Optional sensor probe for different accuracy for different application
- Sensor cable length can be up to 10 meters (standards is 1 meters)

Technical Specification

PARAMETERS	ULTRASONIC SILT LEVEL SENSOR
Specification of Temperature Sensor Part	
Resolution	0.01°C
Range	-40 ... 125°C
Response time	τ63%, >5 s
Accuracy tolerance	±0.3 °C (Type A) ±0.2 °C (Type B) ±0.1 °C (Type C)
Repeatability	0.1°C (Type A) 0.08°C (Type B & C)
Specification of Humidity Sensor Part	
Resolution	@25°C - 0.04 %Rh (JUP-THA); 0.01 %Rh (JUP-THB&C)
Accuracy tolerance	±3.0 %Rh (Type A) ±2.0 %Rh (Type B) ±1.5 %Rh (Type C)
Response time	8 s
Repeatability	±0.1 %Rh (Medium, typical)
Operation range	0-100 %Rh (Extended)
Nonlinearity	<0.1 %Rh



PARAMETERS	ULTRASONIC WATER LEVEL
Specification of LoRa Part	
Power supply	3.6V/8500mAh
Standby current	40µA
TX transmission current	126 mA
MCU	Arm 32-bit Cortex -M0+ with MPU
Memories	192KB Flash memory; 20KB RAM; 6KB EEPROM
Communication Protocol	Standard LoRaWAN Class A
Supporting frequency	863-870 MHz, 902-926 MHz
TX Power	Up to 20 dBm
RX Sensitivity	Down to -137 dBm
Channels	8 settable channels with bandwidth of 125 KHz
Data rate	980 Kbps ~ 3.125 Kbps Adaptive data rate supporting spreading factor of SF8-SF10
Listen Before Talk (LBT)	Yes
Number of data cached when wireless network interrupted (with ACK function enabled)	10

Installations



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