



IAQ SENSOR

The IAQ sensor is used to monitor internal air quality (IAQ). This device can detect ambient air temperature, humidity, and CO2 levels. With its LoRa wireless capabilities, data can be transmitted through a wireless network to Edgecom Energy's servers, giving you access to this data on our portal.



CORE FEATURES



LORA™ WIRELESS



MAGNETIC BASE FOR EASY ATTACHMENT



DUST TIGHT AND WATER RESISTANT



FREQUENCY HOPPING SPREAD SPECTRUM





ELECTRIC

Input Power	2 x 3.6V ER14505 lithium batteries
Operating Voltage	DC 3.1V~3.65V
Battery Llife	5 Years
Standby Current	24 uA
Wakeup Current	0.8mA-20mA (6.99 mA typical)
Low Battery Voltage Threshold	3.2V
Battery Measurement Accuracy	± 0.1V

MODULE-R100H

Wake-up Current	0.8mA - 8mA@3.3V
RF Receiving Current (Max)	11mA/3.3V
RF Transmitting Current (Max)	120mA/3.3V

TEMPERATURE AND HUMIDITY SENSOR

Power Supply	+3.3VDC
Temperature Measurement Range	-20°C~55°C
Temperature Accuracy	±1°C@25°C
Humidity Measurement Range	0%RH-100%RH
Humidity Accuracy	±4%RH @25°C





FREQUENCY

Frequency Range	863-928 (MHz)
TX Power	US915 20dBm;
Receiving Sensitivity	-136dB (LoRa, Spreading Factor=12, Bit Rate = 293bps); -121 dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Built-in Antenna
Communication Distance	Up to 10km Unobstructed
Data Transfer Rate	LoRa: 0.3kbps ~ 50kbps

PHYSICAL

Dimension (L x W x H)	Main Body: 112 x 65 x 28 mm Noise Sensor: 147 x 115 x 41 mm
Main Unit Weight	141 g
Environment Temperature Range	-20°C - 55°C
Environment Humidity Range	<90% RH (No Condensation)
Storage Temperature	-40°C - 85°C

