



Sense Freely Self-Powered Wireless-Batteryless

AIR QUALITY MONITORING





ESCOM Enhanced Solutions

The Future of Wireless - Batteryless Energy Harvesting Sensing Technologies

ESCOM-ES is the R&D center founded in 2018 and owned by ESCOM Power Plants Engineering Services. We are focusing on and developing Self Powered – Wireless - Batteryless Sensors which is eliminating all wiring and cabling cost and workmanship which can reach many kms in a simple industrial plant. And offering smart and green solutions getting rid of batteries and cables...

No Battery - No Cable - No Wiring

ESCOM-ES offers a wide range of domestic and industrial sensing systems that can be used in harsh environment harvests its own power from ambient sources such as motion, temperature, sunlight, magnetic fields, or where energy is available to scavenge...

Self-powered, wireless sensing technology, combined with engineering expertise and rich analytics provide real-time information for our customer's needs...





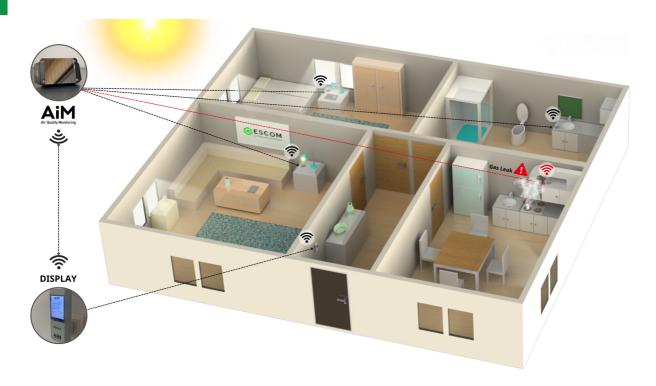


The CO2 sensor has a built-in automatic calibration routine. This routine calibrates the sensor to set it to 400 ppm. It is the lowest reading in an approximately 8-hour period. This sensor must be in a well-ventilated environment at least once for calibration to be completed within an 8-hour period.

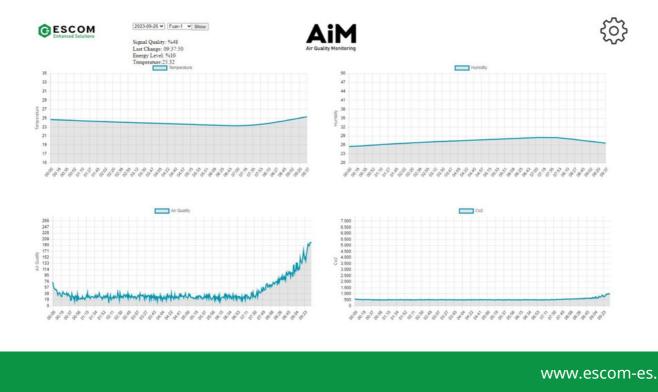
Power Source	Solar Cell	
Installed Sensors	Temperature, Humidity, Pressure, Co2	
Data Transmision	BLE	
RF Transmission Power	+8 dBm	
Data Output	Temperature, Humidity, Pressure, Co2	
Weight	52 grams	
Dimension	96 x 50 mm	
Operating Temperature	-15 °C - +70 °C	







IAQ Index	Air Quality
0 – 50	good ¹⁰
51 – 100	average
101 – 150	little bad
151 – 200	bad
201 – 300	worse ²
301 – 500	very bad







The sensor data taken from the AiM can be transferred to the display up to a maximum of 20 meters.

Up to 15 AiMs can be connected to one display at the same time.

Refresh Rate	Light Intensity	Power Consumption
3 sec	65000 Lux/Day	1500 μW
6 sec	36000 Lux/Day	850μW
15 sec	18000 Lux/Day	425μW
45 sec	15000 Lux/Day	270µW
75 sec	9000 Lux/Day	175µW
75 Sec	9000 Lux/Day	175444

















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