WISUALARM

DHI-HY-M1
Air Quality Monitor (Carbon Dioxide)

- Multi-dimensional monitoring for carbon dioxide (CO_2), air temperature, and humidity
- Easy-to-read E-ink screen with large display (4.23 inches)
- 10-year life and high-performance sensor for CO_2 detection based on NIDR+Photoacoustic technology
- Informative detail display of measurements, and Emoji Comfort Indicator
- Apparent 3-colour LED indicator for illustrating air quality (good, normal and bad)
- Built-in 2500mAh rechargeable lithium-ion battery (lasts up to 14 days)

System Overview

Air Quality Monitor (Carbon Dioxide) is designed to continuously monitor Carbon Dioxide (CO_2) concentration. Adopting advanced electronic technology, measurements such as CO_2 concentration, temperature and humidity will displayed on the 4.23-inch E-ink screen. Together with the Emoji comfort and three-color LED indicator, it will remind the user the real-time and apparent surrounding air quality at a glance.

Scene

Application scenarios include bedrooms, baby rooms, hospital wards, hotels, classrooms and other places that require air quality/carbon dioxide detection.

Technical Specification

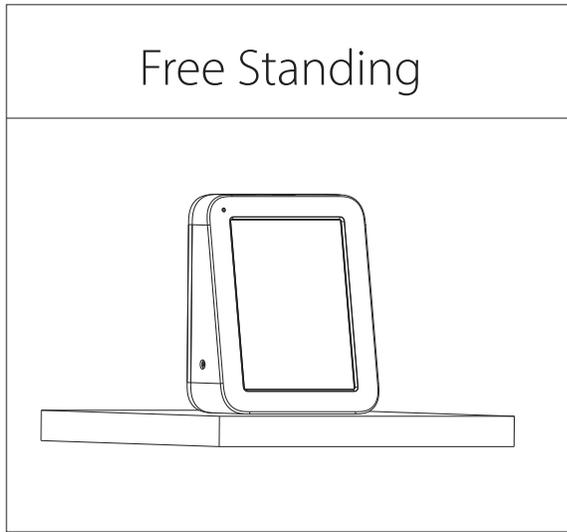| Working Principle	
Collection Type	Carbon dioxide(CO_2), temperature and humidity
Sensor Type	NIDR + Photoacoustic

Basic Parameters	
CO_2 Measurement Range	400 ppm-5000 ppm
Temperature Detection Range	0°C to +60°C (32°F to +140°F)
Humidity Detection Range	0-99% RH
Temperature Accuracy	± 0.5°C (± 32.9°F)
Humidity Accuracy	± 5% RH
Display	4.23 inch E-ink screen
Information on Screen	CO_2 concentration, temperature, humidity, Emoji comfort, battery level

Technical Specification

LED Instruction	Green LED: $CO_2 \leq 800$ ppm Yellow LED: 800 ppm $< CO_2 \leq 1500$ ppm Red LED: $CO_2 > 1500$ ppm

Power Supply	
Power Input	DC 5V/1A
Battery Model	2500 mAh rechargeable lithium battery

Operating Ambient	
Operating Environment	Indoor use only
Operating Temperature	0°C to +50°C (+32°F to +122°F)
Operating Humidity	≤90% RH (non condensing)
Operating Atmospheric Pressure	70 kPa-106 kPa

Storage Ambient	
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Storage Humidity	≤95% RH (non condensing)
Storage Atmospheric Pressure	50 kPa-106 kPa

Appearance	
Material	PC/ABS
Dimensions	108mm x 91mm x 43.7 mm (4.25'' x 3.58'' x 1.72'')
Weight	148 g (0.33 lb)
Installation	Free-standing

Certification	
Certifications	CE/FCC

Installation

Free Standing

Ordering Information

Type	Part Number	Description
Air Quality Monitor	DHI-HY-M1	Air quality monitor for carbon dioxide (CO_2), temperature and humidity

Dimensions (mm/inch)

90.97

108.08

24.90

43.94