

DHI-HY-M1

Air Quality Monitor (Carbon Dioxide)



- Multi-dimensional monitoring for carbon dioxide (CO₂), air temperature, and humidity
- Easy-to-read E-ink screen with large display (4.23 inches)
- 10-year life and high-performance sensor for CO₂ detection based on NIDR+Photoacoustic technology
- Informative detail display of detection, 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 (CO₂) concentration. Adopting advanced electronic technology, detection such as CO₂ 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

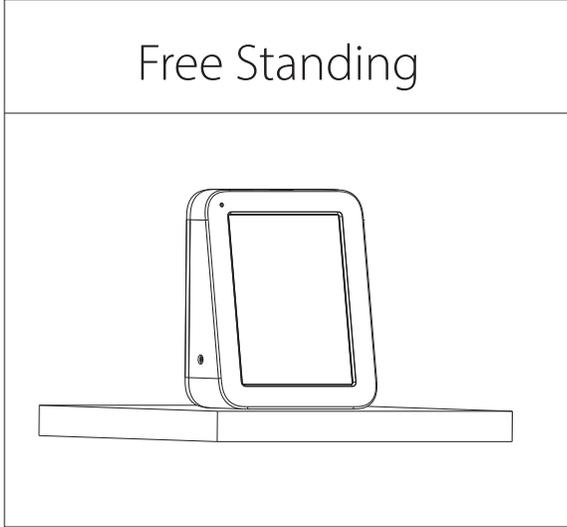
| | |
|---------------------------------|--|
| CO ₂ Detection Range | 400 ppm-5000 ppm |
| Temperature Detection Range | 0°C to +60°C (32°F to +140°F) |
| Humidity Detection Range | 0-99% RH |
| Temperature Accuracy | ± 0.5°C (± 32.9°F) |
| Humidity Accuracy | ± 5% RH |
| Display | 4.23 inch E-ink screen |
| Information on Screen | CO ₂ concentration, temperature, humidity, Emoji comfort, battery level |

Technical Specification

| | |
|--------------------------------|---|
| LED Instruction | Green LED: CO ₂ ≤ 800 ppm Yellow LED: 800 ppm < CO ₂ ≤ 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)

