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Breathe Smart with the Sensedge

(SE-100)

The air quality monitor made for smart, healthy, and energy-saving buildings.

OVERALL INDEX (AQI US)

10:15AM

My Air

Data

Settings

36
GOOD

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8
PM2.5

602
CO2

146
TVOC

39%
HUMIDITY

24°
TEMPERATURE

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We breathe more than 15,000 liters of air every single day. Optimizing indoor air can have measurable benefits and help people and businesses thrive.

Wellness **Productivity** **Energy Saving** **Profits**

36
GOOD

602
146
39%
24°

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Product Excellence, Every Step of The Way

Data accuracy and reliability guaranteed by best-in-class hardware and software.

Sensing components made in Switzerland

Individually calibrated monitors

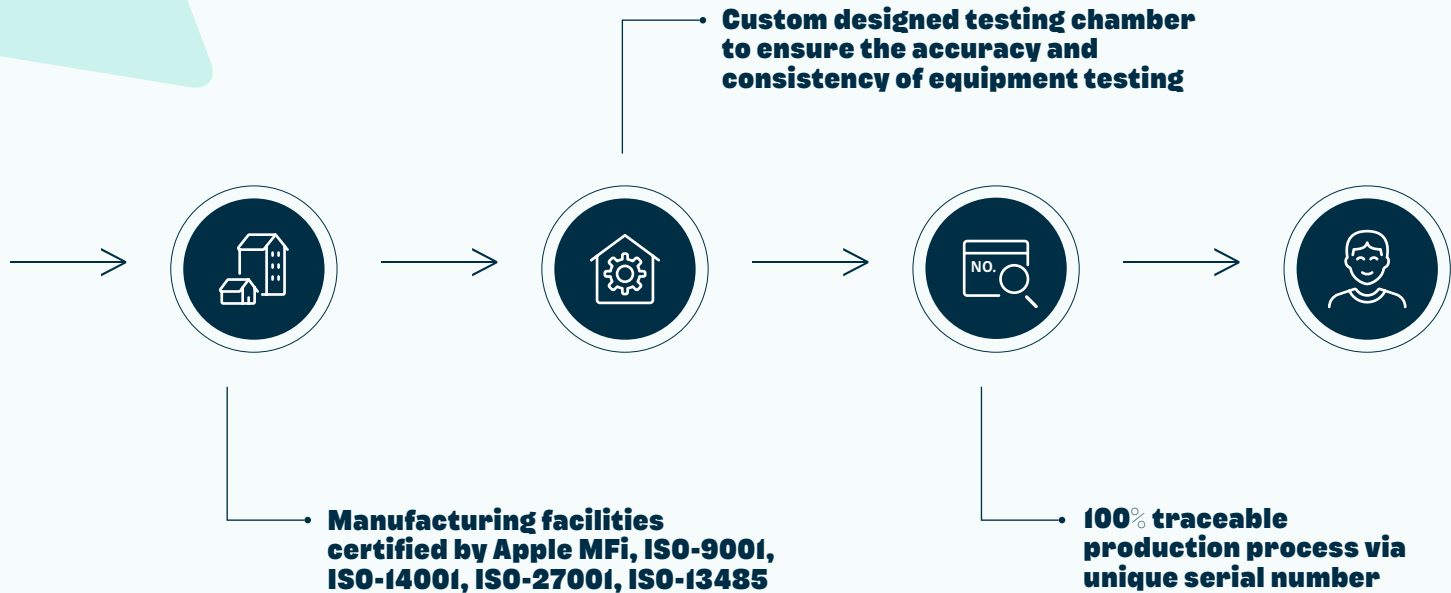**Tested against complex network environments for robust connectivity**

Extensive testing across 6,000 individual measurements

RESET certified

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Robust Quality Control Process

Custom designed testing chamber to ensure the accuracy and consistency of equipment testing

Manufacturing facilities certified by Apple MFi, ISO-9001, ISO-14001, ISO-27001, ISO-13485

100% traceable production process via unique serial number

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Your Healthy Building Starts Here

The Sensedge is tested and certified by the RESET standard for accuracy, and fully compliant with the WELL v2 building standard for performance.

Trusted by

Microsoft

DLR Group

Gartner

Morgan Stanley

Delos™

INTERNATIONAL WELL BUILDING INSTITUTE MEMBER

unicef

MMOSERASSOCIATES

PERKINS EASTMAN

Canada

wipro

NEW ZEALAND EMBASSY

MANN+HUMMEL

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The Air Monitoring Solution for Your Needs
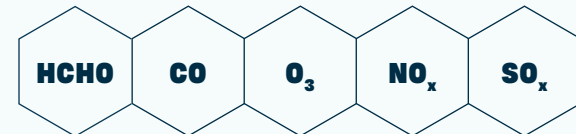
$PM_{2.5}$

TVOC

CO_2

Temperature

Humidity

Customizable Modules

The Sensedge is equipped with modular sensors which can be custom-made to fit your project's monitoring needs:

HCHO CO O_3 NO_x SO_x

and more!

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Accurate Monitoring, No Calibration Needed

With easily replaceable sensor modules, there is absolutely no need to recalibrate your Sensedge. Simply replace the sensors in seconds for continuous and accurate monitoring with little to no maintenance.

Kaiterra Sensedge vs **Conventional Monitors**

Kaiterra Sensedge	Calibration Method	Conventional Monitors
✓ Sensor Replacement	**Calibration Method**	Off-site Calibration ✕
✓ Anyone	**Expertise Required**	Trained Technicians ✕
✓ < $200	**Calibration Cost**	$1,000+ ✕
✓ < 1 Minute	**Time Spent**	Weeks to Months ✕

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Manage Your Air with the Kaiterra Dashboard and App

Use the Kaiterra Dashboard to monitor and manage your devices in one portal, and use the Kaiterra app to stay on top of your air even on the go.

Monitor and manage multiple devices

View real-time data and trends

Identify sources of pollution

Compare readings across devices

Receive notifications

Export historical data

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Create Certified Performance Reports

The Sensedge collects minute-by-minute readings and is directly exportable in formats recognized and supported by the WELL, RESET and LEED standards.

Secure, Flexible, Connected

Using end-to-end SSL/TLS encryption, the Sensedge provides maximum security for data transfer.

The Sensedge supports Wi-Fi and ethernet for connectivity, as well as various network configurations, including company proxy servers, hidden SSIDs, and captive portals. Both Static IP and DHCP options are available.

Wi-Fi

Ethernet

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API　　Modbus　　Cloud and Local MQTT　　BACnet

Powerful Automation and Control

Maximize the performance of your filtration and HVAC systems with flexible connectivity options. Seamlessly integrate to your building's automation control system through our open API, BACnet, and more.

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Simple
Installation

The Sensedge is easily mounted onto any wall with just three screws. Power on and access your air quality data within minutes.

Product Features

Customizable Modules

Wi-Fi Connection

Ethernet Socket

8GB On-Board Memory

Data Buffer

Micro-SD Card

5200mAh Battery

7" Full Color Touchscreen

Multiple Languages

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Made for Healthy Buildings Worldwide

DARWIN Smart Home
Melbourne

Perkins Eastman
New York

IWBI Headquarters (WELL Platinum)
New York

Milliken Showroom
San Francisco
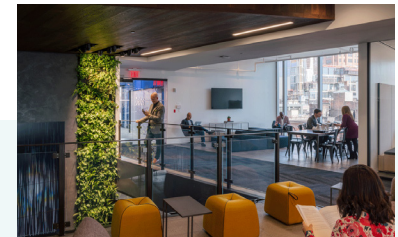
Delos Living (WELL Platinum)
New York

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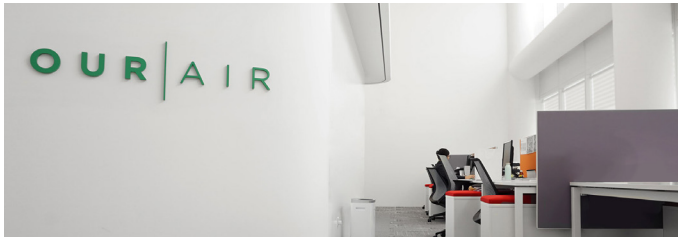
MANN+HUMMEL Asia Pacific Headquarters
Singapore

M. Moser
New York, Hong Kong & Shanghai

MANN+HUMMEL Headquarters
Ludwigsburg

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Product Specifications

	Sensor Type	Measuring Range	Sensor Output Resolution	Accuracy
Particulate Matter 2.5 (PM$_{2.5}$)	Laser Particle Sensor (Light Scattering)	1 - 1000 µg/m^3	1 µg/m^3	±10 % (<30 µg/m^3: ±3 µg/m^3)
Total Volatile Organic Compounds (TVOCs)	Metal Oxide Semiconductor Sensor (MOS)	0 - 60000 ppb	1 ppb	±15 %
Carbon Dioxide (CO$_2$)	Non-Dispersive Infrared Detector (NDIR)	400 - 10000 ppm (full range) 400 - 2000 ppm (range with high accuracy)	1 ppm	±3 % ±50 ppm
Temperature	Digital Sensor	-20 - 100 ℃	0.1 ℃	±1 ℃
Relative Humidity	Digital Sensor	0 - 99 %RH	1 %RH	±5 %RH

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Dimensions	Length: 184 mm (7.2 in) Width: 146 mm (5.7 in) Height: 48 mm (1.9 in)

Weight	Unit Weight: 800 g (1.76 lbs)

Connectivity & Intergration	Wi-Fi Connection 2.4 GHz 802.11 b/g/n Ethernet BACnet/IP Modbus * * For Modbus connection, an external adapter is required

Operational Environment	Operational Temperature: 0 - 50 °C Operational Humidity: 5 to 95 %RH, non-condensing

Data Storage & Logging	Log Interval: 1 minute, 1 hour, 1 day Data Push Interval: 1 minute * Onboard Memory: 8 GB (>50,000,000 data points) * Customizable upon requests

Power Consumption	Input: DC - 5 V 1.8 A Operating: 10 W

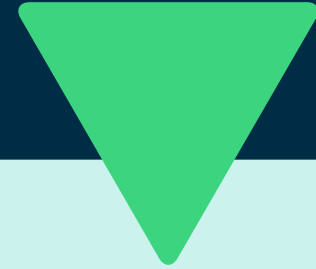| **Battery**	Capacity & Voltage: 5200 mAh @ 4.2 V Usage Time: 8 hours

Warranty & Durability	Standard Warranty: 1 year * Expected Lifespan: 5 to 7 years * Extended warranty available

Certifications	Environmental: ROHS, REACH, WEEE Customer: FCC (US), CE (Europe) Electronic safety: SRRC (China), RESET

Accessories	Drywall anchors & screws USB cable Power adapter * * Regional variants available

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