



AIR QUALITY MONITOR

CATALOGUE 2022

PICTURE BOOK OF ENVIRONMENT METERS



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ABOUT US

YOWEXA was established in 2010 and is a high-tech enterprise focusing on the R&D, manufacturing, export, and after-sales service solutions of precision measuring instruments and sensors.

It has ISO 9001 certification, a production area of 1,500 square meters, more than 30 R&D personnel, and dozens of patents.

Our main products are coating thickness gauge, disposable PDF temperature data logger, temperature and humidity data logger, air quality and environment meter, professional data logger, thermometer, and so on. Most of them passed FCC, CE, ROHS, Reach, DO-160G, EN12830, FDA 21CFR11, ASTM, DIN, ISO, BS, etc.

Our main products are coating thickness gauges, disposable PDF temperature data loggers, temperature and humidity data loggers, air quality and environment monitors, professional data loggers, thermometers, and so on. Most of them passed FCC, CE, ROHS, Reach, DO-160G, EN12830, FDA 21CFR11, ASTM, DIN, ISO, BS, etc.

Products are widely used in automotive testing, cold chain transportation of medicine and food, storage, bioengineering, pharmaceutical and food industry, equipment manufacturing, surface treatment, scientific research institutions and laboratories, HVAC, IoT, environmental health, ultra-clean space, hospitals, homes, schools, and other fields.

The sensor technologies we are involved in include thickness, temperature, humidity, carbon dioxide, TVOC, formaldehyde, haze, pressure, and process signals. At the same time, Bluetooth, WIFI, GSM, GPRS, Lora, NB, cloud services, and other IoT technologies are innovatively and economically integrated into our products, bringing customers a highly intelligent technological experience.

Based on high precision, competitive cost-effectiveness, on-time delivery, and good after-sales service, we have won a good reputation from our clients. Contact us and welcome ODM & OEM requirements.

SINCERELY HOPE THAT
WE COULD COOPERATE WITH YOU IN THE FUTURE
THANKS



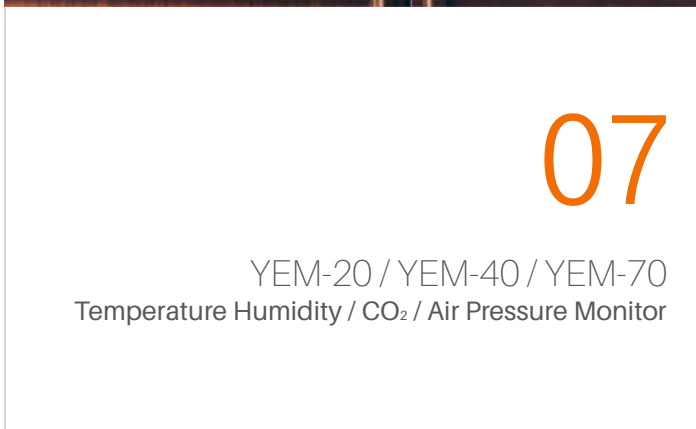
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YEM-20L / YEM-40L / YEM-70L
Temperature Humidity / CO₂ / Air Pressure Monitor
with Data Storage and Export



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YEM-42
CO₂ Temperature Humidity Monitor



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YEM-20 / YEM-40 / YEM-70
Temperature Humidity / CO₂ / Air Pressure Monitor



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YEH-220 / YEH-310 / YEH-410
YEH-500 / YEH-40 / YEH-40D
YEH Series Multifunctional Air Quality Monitor



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YEM-40C / YEM-40CL
CO₂ Temperature Humidity Monitor



AIR QUALITY MONITOR

CONTENTS

Temperature Humidity / CO₂ / Air Pressure Monitor with Data Storage and Export

YEM-20L / YEM-40L / YEM-70L

- Generate files of txt / csv / xls / dlj without any software and driver
- Used as u-disk on PC to download files easily
- View graph and analyze data through the professional software
- Sample interval can be set by button
- Export file formats can be set by button
- View historical readings of maximum/minimum/average
- User configurable high / low alarm
- Real-time and historical alarm status indication
- Calendar supported and user configurable
- Sound alarm supported
- Large LCD with backlight
- Comfort level indication
- °C / °F / Dew point
- Battery status indication and long battery life



YEM-20L
Thermo hygrometer with data logger.
Part no.: 1000300024

YEM-70L
Thermo hygrometer and air pressure
with data logger.
Part no.: 1000300022

YEM-40L
Thermo hygrometer and carbon dioxide
with data logger.
Part no.: 1000300023

Specifications	YEM-20L	YEM-40L	YEM-70L
Channel	1 int. temp.(dew point supported) 2 int. humi.	1 int. temp.(dew point supported) 2 int. humi. 3 int. CO ₂	1 int. temp.(dew point supported) 2 int. humi. 3 int. air pressure
Sensor	Digital Digital	Digital Digital Infrared	Digital Digital Digital
Unit	°C, °F %RH	°C, °F %RH PPM	°C, °F %RH hPa
Measuring range	-30~65°C 0~100%RH	-30~65°C 0~100%RH 0~10000PPM	-30~65°C 0~100%RH 300~1100hPa
Accuracy	±0.3°C (-10~65°C) ±0.5°C(others) ±3%RH(10~90%RH,25°C) ±4%RH(others)	±0.3°C (-10~65°C) ±0.5°C (others) ±3%RH(10~90%RH,25°C) ±4%RH(others) ±3%±40PPM(400~2000PPM) only for reference(others)	±0.3°C (-10~65°C) ±0.5°C (others) ±3%RH(10~90%RH,25°C) ±4%RH(others) ±1hPa(950~1050hPa,0~40°C); ±2hPa(Others)
Resolution	0.1°C 0.1%RH	0.1°C 0.1%RH 1PPM	0.1°C 0.1%RH 0.2hPa
Readings memory	26624 readings	22528 readings	22528 readings
Response time(T90)	15 minutes(Internal probe) 5 minutes(External probe)	15 minutes(Internal probe) 5 minutes(External probe) CO ₂ : ≥3 minutes	15 minutes(Internal probe) 5 minutes(External probe) air pressure: 5 seconds
LCD refresh interval	5s	5s	5s
Measuring interval	5s	5s(temp. and humi.) 5s to 30m adjustable(CO ₂)	5s
Power supply	3pcs AAA batteries (100~240V 50/60Hz, 5V/2A)	3pcs AAA batteries AC/DC Adapter (100~240V 50/60Hz, 5V/2A)	3pcs AAA batteries (100~240V 50/60Hz, 5V/2A)
Battery life	1 year(25°C)	45 days(25°C, 15minutes interval)	1 year(25°C)
Operation temperature	-30~65°C	-30~65°C(if <0°C or >50°C, CO ₂ will stop)	-30~65°C
Storage temperature	-30~65°C	-30~65°C	-30~65°C
Size / Weight	96X108X20mm About 117g(No battery)	96X108X20mm About 124g(No battery)	96X108X20mm About 118g(No battery)
Protection class	IP20	IP20	IP20
Standards / Certificates	CE ROHS	CE ROHS	CE ROHS
Interface	MicroUSB	MicroUSB	MicroUSB

Temperature Humidity / CO₂ / Air Pressure Monitor

YEM-20 / YEM-40 / YEM-70

- View historical readings of maximum / minimum / average
- User configurable high / low alarm
- Real-time and historical alarm status indication
- Calendar supported and user configurable
- Sound alarm supported
- Large LCD display with backlight
- Comfort level indication
- °C / °F / Dew point
- Battery status indication
- Long battery life



YEM-20
Tthermo hygrometer with historical alarm.
Part no.: 1000400003

YEM-70
Thermo hygrometer with air pressure.
Part no.: 1000400001

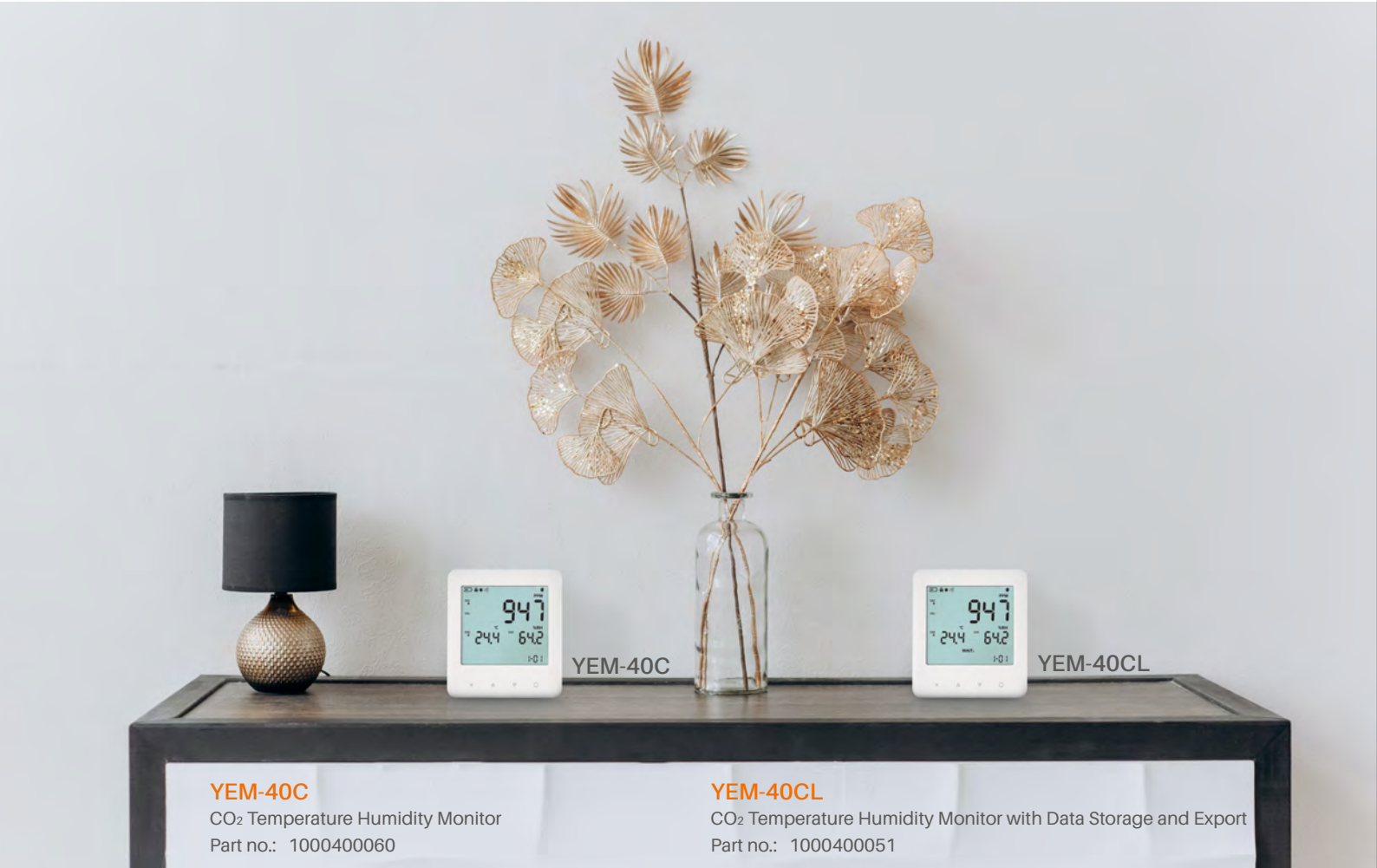
YEM-40
Thermo hygrometer with carbon dioxide.
Part no.: 1000400002

Specifications	YEM-20	YEM-40	YEM-70
Channel	1 int. temp.(dew point supported) 2 int. humi.	1 int. temp.(dew point supported) 2 int. humi. 3 int. CO ₂	1 int. temp.(dew point supported) 2 int. humi. 3 int. air pressure
Sensor	Digital Digital	Digital Digital Infrared	Digital Digital Digital
Unit	°C, °F %RH	°C, °F %RH PPM	°C, °F %RH hPa
Measuring range	-30~65°C 0~100%RH	-30~65°C 0~100%RH 0~10000PPM	-30~65°C 0~100%RH 300~1100hPa
Accuracy	±0.3°C(-10~65°C) ±0.5°C(others) ±3%RH(10~90%RH,25°C) ±4%RH(others)	±0.3°C(-10~65°C) ±0.5°C(others) ±3%RH(10~90%RH,25°C) ±4%RH(others) ±3±40PPM(400~2000PPM) only for reference(others)	±0.3°C (-10~65°C) ±0.5°C (others) ±3%RH(10~90%RH,25°C) ±4%RH(others) ±1hPa(950-1050hPa,0~40°C)
Resolution	0.1°C 0.1%RH	0.1°C 0.1%RH 1PPM	0.1°C 0.1%RH 0.2hPa
Response time(T90)	15 minutes(Internal probe) 5 minutes(External probe)	15 minutes(Internal probe) 5 minutes(External probe) CO ₂ : ≥3 minutes	15 minutes(Internal probe) 5 minutes(External probe) 5 seconds
LCD refresh interval	5s	5s	5s
Measuring interval	5s	5s(temp. and humi.) 5s to 30m(CO ₂)	5s
Power supply	3pcs AAA batteries (100~240V 50/60Hz, 5V/2A)	3pcs AAA batteries AC/DC Adapter (100~240V 50/60Hz, 5V/2A)	3pcs AAA batteries (100~240V 50/60Hz, 5V/2A)
Battery life	1 year(25°C)	45 days(25°C, 15minutes interval)	1 year(25°C)
Operation temperature	-30~65°C	-30~65°C(if <0°C or >50°C, CO ₂ will stop)	-30~65°C
Storage temperature	-30~65°C	-30~65°C	-30~65°C
Size / Weight	96X108X20mm About 117g(No battery)	96X108X20mm About 124g(No battery)	96X108X20mm About 118g(No battery)
Protection class	IP20	IP20	IP20
Standards / Certificates	CE ROHS	CE ROHS	CE ROHS
Interface	MicroUSB	MicroUSB	MicroUSB

CO₂ Temperature Humidity Monitor

YEM-40C / YEM-40CL

- 3.9-inch display, with backlight
- Touch-sensing button
- Show maximum, minimum, average
- Red-backlight over-limit alarm
- Real-time and historical alarm status indication
- Storage capacity of 22,528 per Channel(YEM-40CL)
- Generate txt / csv / xls / dlq format file(YEM-40CL)
- PC software analysis data(YEM-40CL)
- Low power consumption
- Calibration function
- Battery protection



Model	YEM-40C	YEM-40CL
Measurement Parameters	Temperature(dry ball, dew point), Humidity, Carbon Dioxide	
Recording Function	None	Yes
Unit	Temperature:°C, °F; Humidity:%RH; Carbon Dioxide:PPM	
Measuring Range	Temperature: -30~+ 65°C(built-in probe); -40~+125°C(external probe); Humidity: 0~100%RH(Non-condensation) Carbon Dioxide: 0 ~ 10,000PPM	
Measuring Accuracy	Temperature: ±0.5°C(-10~ +65°C); ±1.0°C(Other Range) Humidity: ±5%RH(10~90%RH, 25°C); ±6%RH(Others) Carbon Dioxide: ±3%±40PPM (400~2000PPM,0~50°C); (Other ranges shown for reference only)	
Resolution	Temperature: 0.1°C Humidity: 0.1%RH Carbon Dioxide: 1PPM	
Response Time(t90)	Temperature: 15 minutes(built-in probe); 5 minutes(external probe) Humidity: 15 minutes(built-in probe); 5 minutes(external probe) Carbon Dioxide: ≥3 minutes	
Measuring Interval	Temperature: 5 seconds Humidity: 5 seconds Carbon Dioxide: 5 seconds~30 minutes adjustable	Temperature: 5 seconds Humidity: 5 seconds Carbon Dioxide: 5 seconds~120 minutes adjustable
Recording Interval	None	5 seconds~ 120 minutes adjustable
LCD Refresh Interval	5 seconds	
Storage Capacity	None	22,528 Data points per channel
Operating Temperature	0~+50°C	
Storage Temperature	-30~ + 65°C (no batteries)	
Battery	3 pcs 1.5V AAA alkaline batteries (USB power supply is recommended)	
Power Supply Interface	Micro USB,DC 5V/2A	
Protection Class	IP20	
Overall Dimensions	108X96X20mm	
Housing Material	ABS	
Weight	About 124g (no batteries)	

CO₂ Temperature Humidity Monitor

YEM-42

- HD black bottom color screen
- Use the NDIR sensor
- Lithium-electric direct charge (optional)
- Dry Battery Power Supply (optional)
- Human comfort index
- Intelligent alarm
- CO₂ User Calibration
- Screen brightness is adjustable
- Battery status indication



YEM-42
Temperature Humidity Monitor CO₂ Meter
Part no.: 1000400050



Model	YEM-42
Measure Parameters	Temperature, Relative Humidity, CO ₂ concentration
Unit	Temperature: °C; Humidity: %; CO ₂ : PPM
Measurement Range	Temperature: -20~+ 60°C Humidity: 0~ 100% CO ₂ : 400 ~ 10,000 PPM
Measurement Accuracy	Temperature: ±1°C (-10~+65°C) ±2°C (Other range) Humidity: ±5% (10~90%,25°C) ±6% (Other range) CO ₂ : ±3%±100PPM (400~2000PPM,0~50°C) Other range presentation values are for reference only
Resolution	Temperature: 1°C Humidity: 1% CO ₂ : 1PPM
Response Time(t ₉₀)	Temperature: 15 minutes Humidity: 15 minutes CO ₂ : ≥ 3 minutes (in better air circulation)
Measuring Interval	Temperature: 1 second Humidity: 1 second CO ₂ : 4 seconds
LCD Refresh Interval	1 second
Operating Temperature	-20~+60°C
Storage Temperature	-30~+ 60°C (no battery)
Power Supply	(1) 3 PCS 1.5V AAA alkaline battery / USB power supply; (2) lithium direct charge / USB power supply Above (1) and (2) plan, choose one
Power Supply Interface	Type-C,DC 5V/2A
Protection Class	IP20
Size	91X76X40mm
Case Material	ABS
Weight	About 140g(without batteries)

YEH-220

HCHO+Temperature+Humidity



- Part no.: 1000400007 -

YEH-310

PM2.5 / 10 / 1+Temperature
+Humidity



- Part no.: 1000400006 -

YEH-410

PM2.5+HCHO+Temperature
+Humidity



- Part no.: 1000400005 -

YEH-500

CO₂+PM2.5+HCHO
+Temperature+Humidity



- Part no.: 1000400004 -

YEH-40

CO₂+Temperature+Humidity



- Part no.: 1000400009 -

YEH-40D

CO₂+Temperature+Humidity
with Data Logger



- Part no.: 1000400008 -

YEH Series Multifunctional Air Quality Monitor

YEH-220 / YEH-310 / YEH-410 / YEH-500
YEH-40 / YEH-40D

- Industrial Sensors
- For High Accuracy Measurement Fields
- 32Bits ARM CPU to Improve Operation Performance
- Data Logger Function to Store and View Readings Easily
- Sound Alarm When Exceeding Limit
- Air Quality Monitoring with Internal Rechargeable Lion Battery
- Quick Response Rate While Measuring
- Real Time Clock
- Large STN LCD to Display Clearly
- Display Readings of Maximum and Minimum



Product Selection Guide

Items / Model No.	YEH-500	YEH-410	YEH-310	YEH-220	YEH-40	YEH-40D
Temperature	●	●	●	●	●	●
Humidity	●	●	●	●	●	●
Carbon Dioxide	●	○	○	○	●	●
PM2.5	●	●	●	○	○	○
PM10	●	○	●	○	○	○
PM1.0	●	○	●	○	○	○
HCHO	●	●	○	●	○	○
Data Logger / U-Disk	○	○	○	○	○	●
Real Time Clock	●	●	●	●	●	●
Sound Alarm	●	●	●	●	●	●
Max. / Min.	●	●	●	●	●	●
AQI	●	●	●	●	●	●
Operation Environment	-10~50°C, 10~90%RH, Standard air pressure					
AC Adapter	Input: AC 100~240V ; Ouput: DC 5V, 2A					
Dimension	126X84X36mm					
Standards / Certificates	CE, ROHS					
Storage Environment	-20~50°C, 0~90%RH, Standard air pressure					

Measurement Parameter

Sensor Type	Laser	Laser	Laser	Electrochemical	Semicon- ductor	Capacitive	Infrared
Measurement Parameters	PM2.5	PM10	PM1.0	HCHO	Temperature	Humidity	Carbon Dioxide
Measuring Range	0~999ug/m³	0~999ug/m³	0~999ug/m³	0~2mg/m³(max.)	-40~80°C	0~100%RH	0~9999PPM
Resolution	1ug/m³	1ug/m³	1ug/m³	0.001mg/m³	0.1°C	0.1%RH	1PPM
Accuracy	±10%	±10%	±10%	0.03mg/m³(<0.3mg/m³) ±10%(>=0.3mg/m³)	±0.5°C	±3%RH	±50PPM±5% (0~2000PPM) (Other measuring ranges are for reference only)
Response Time	<10S	<10S	<10S	<40S	<30S	<8S	<120S