



CO₂ Temp. RH

THi Temperature-Humidity Index

≤74 Comfortable	74.1~79.9 Acceptable	≥80 Uncomfortable
--------------------	-------------------------	----------------------

CO₂ ppm	😊 ≤800	😐 801~1200	😞 >1200
THi	😊 ≤74	😐 74.1~79.9	😞 ≥80



ZG390C

THi Mode



Desktop CO₂ Monitor



- IAQ / HVAC applications
- Measurement target: CO₂, THi (Temperature-Humidity Index), Temperature, RH
- Dual beam NDIR technology is used to measure CO₂ concentration up to 5,000ppm
- Temperature-Humidity Index (THi) indicates comfort conditions with the indoor environment
- 3 LED displays indicate the status of CO₂ / THi
- Built-in Real Time Clock (RTC) & Micro SD Card
- 8 Days Background Calibration (8BC)



Living room

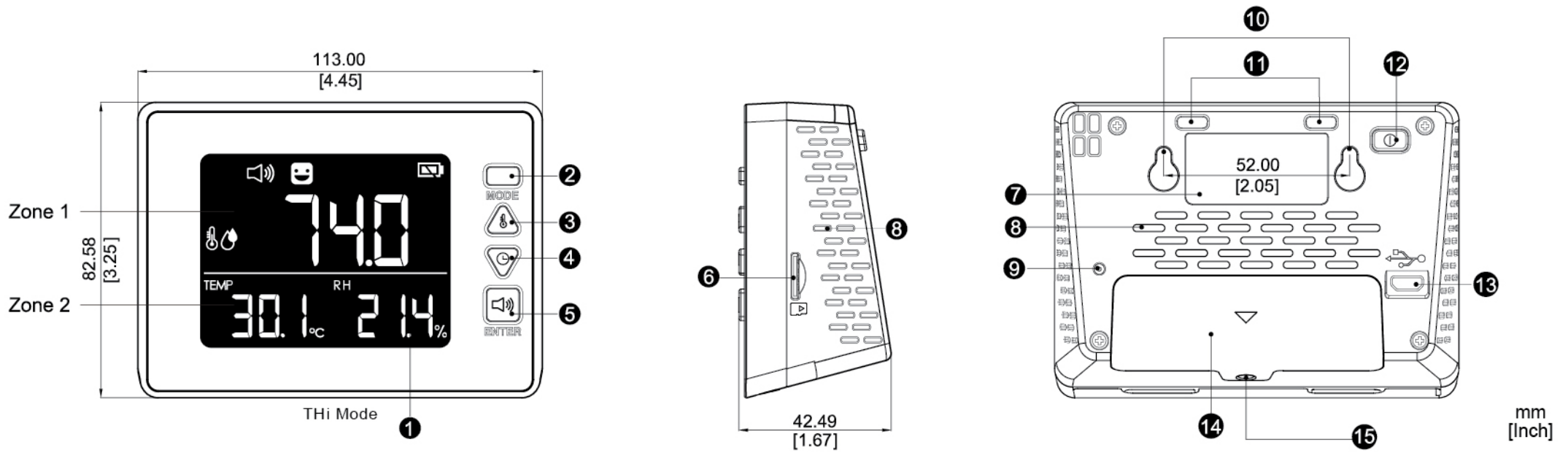


Kitchen



Bedroom

ZyAura
Monitor the invisible



1 LCD display	2 Mode Button	3 Up Button	4 Down Button	5 Enter Button
6 Micro SD Slot	7 Label	8 Ventilation Slots	9 Gas Entry Hole	10 Screw Position
11 Hole For Hook	12 Power Switch	13 Power Inlet	14 Battery Cover	15 Screw

Specifications (Specifications are subject to change without notice)

Measurement Items	CO ₂ , THi, Temperature, RH
Measurement Method	Dual Beam NDIR (CO ₂)
Display	Zone 1: CO ₂ , THi Zone 2: Temperature, RH or Date / Time
Sample Method	Diffusion or flow through (0.05 ~ 0.2l/min)
CO₂	
Measurement Range	0-5,000 ppm (0.5%)
Accuracy	0~3,000 ppm: ±50 ppm or 5% of reading, whichever is greater; > 3000 ppm: ±7%
Resolution	1 ppm
Repeatability	±20 ppm@400ppm
Temperature Dependence	Typ. ±0.2% of Reading per °C or ±2 ppm per °C whichever is greater, referred to 25°C
Pressure Dependence	0.13% of reading per mm Hg
Response Time	< 2 min for 63% of step change
Warm-Up Time	< 60 seconds at 22°C

Alarm Level (Adjustable)	Alarm L: 800ppm (default) Alarm H: 1,200ppm (default)
Update Period	2 sec
Calibration	8BC (8 Days Background Calibration)
Temperature	
Measurement Range	0-50°C (32~122° F)
Accuracy	±1°C (±2°F) when the fan blows to the device directly, the accuracy of temperature is ±1.5°C
Resolution	0.1°C
Response Time	20-30 min (case must equilibrate with environment)
Warm-Up Time	1min
RH	
Measurement Range	0~100%
Accuracy	±5%RH@23°C
Resolution	0.1%RH

Datalogging Functions	
Sampling Interval	2/5/10/15/30 sec, 1/2/5/10/15/20/30/60 min
Storage Capacity	depend on Micro SD card capacity (max.16G Micro SD card)
Operating Conditions	0~40°C (32~104°F), 0~95%RH, non-condensing, with lithium-ion battery 0~50°C (32~122°F), 0~95%RH, non-condensing, without lithium-ion battery
Storage Conditions	-20~60°C (-4~140°F), 0~85%RH, non-condensing, without lithium-ion battery
Power Supply	Rechargeable Battery (not included): Li-ion 3.7V Unprotected Button top 18650 battery*1pcs (L65~67mm, Ø18~19mm) (Battery Life: more than 4 hours @1800mAH) USB or 5 VDC AC adapter
Dimension [mm]	113*82.6*42.5
Weight [g]	173.5 (battery is not included)