

Monitor CO2 / O2 to ensure the Safety of Storage Areas

- Dual Beam NDIR (Non-Dispersive Infrared) technology is used to measure CO2 concentration up to 50,000 ppm (parts per million) and electrochemical technology to measure O2 concentration up to 30%
- With the SEU (Sensor Unit) and RDU (Remote Display Unit), it can connect up to 3 RDU for safety notices
- Large digital LCD display clearly indicates the ambient CO2、O2(optional) concentration and Temperature
- Relay output can automatically control a fan to ventilate confined spaces
- Audible and Visual Alarm indications
- IP54 Water Proof Protection of SEU (Sensor Unit) except backside when installed on the wall




Breweries / Wineries


Cellars


Beverage Dispensing Areas


Fast Food Outlets

ZyAura
Monitor the invisible

ZGa21enc is designed to detect the presence of Carbon Dioxide and Oxygen in the ambient air to protect people in confined spaces. High concentrations of CO2 or low concentrations of Oxygen in confined spaces are dangerous, and may lead to health problems ranging from headaches and fatigue to asphyxiation and death. The ZGa21 CO2 & O2 Monitor is with the audible alarm and visual indication which will activate when CO2 or O2 concentration reaches the pre-set level. Detection of high levels of CO2 will also activate a relay that could be used for a fan to ventilate the confined space and reduce CO2 concentration in the area. The ZGa21 CO2 & O2 Monitor can be widely used in CO2 storage areas, breweries, wineries, cellars, beverage dispensing areas, and fast food outlets.

Specifications

■ Performance-CO_2,O_2 Channel

Measurement Range : CO2: 0 - 50,000ppm (5%) display ,
O2: 0- 30% display

Resolution : CO2: 10ppm at 0~10,000ppm;
100ppm at 10,001~50,000ppm,
O2: 0.1%

Accuracy : CO2: ±100ppm or ±5% of reading, whichever is greater
O2: Better than ± 3% of FS over 0.1 to 30%

Repeatability : CO2: ±20ppm @ 400ppm
O2: Less than ±1.0%

Response Time : CO2: <60 seconds for 90% response to step change
O2: <30 seconds for 90% response to step change

Warm-Up Time : <60 seconds at 22°C

■ Temperature Specification

Temperature Range : 0 ~ 50°C (32 ~ 122°F)

Display Resolution : 0.1°C (0.1°F)

Display Options : °C/°F

Accuracy : ±1°C(±2°F) when CO2 concentration is below first alarm level

Response Time : 20-30 minutes (case must equilibrate with environment)

■ Power Supply & Relay Output

Relay Outputs : Peak Current<2A@30VDC or 250VAC, SPDT for CO2 / O2

Analog output : Two channel linear current output
4~20mA for O2, RL<150Ω;
4~20mA for CO2, RL<150Ω.

Power Supply : AC adapter 110/220 VAC

Specifications are subject to change without notice.

■ General Operating Conditions

Operation Temperature : 0~40°C (32~104°F)

Humidity Range : 0-95%RH, non-condensing

■ Optional Model

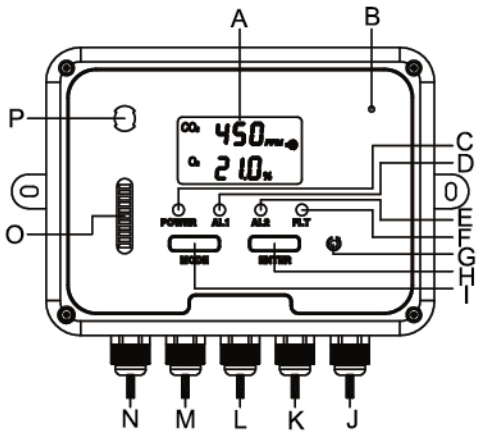
ZGa21e : CO2+Temp.

ZGa21ec : CO2+Temp.+Analog output

ZGa21en : CO2+O2+Temp.

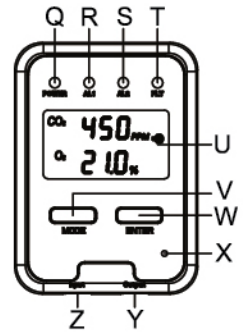
ZGa21enc : CO2+O2+Temp.+Analog output

SEU (Sensor unit)



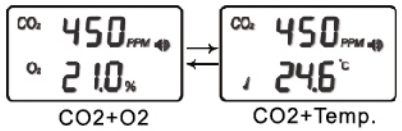
A. LCD display	I. Mode Button
B. Buzzer	J. CO2 Relay output (red & white: NO, blue & white: NC)
C. Green LED (Power indication)	K. O2 Relay output (red & white: NO,blue& white: NC)
D. Red 1 LED(AL1)	L. Analog output (red & white:CO2, blue &white: O2)
E. Red 2 LED(AL2)	M. Communication Cable to RDU
F. Yellow LED (Fault indication)	N. Power Supply
G. Reset Button	O. CO2 entry
H. Enter Button	P. O2 entry

RDU (Remote Display Unit)

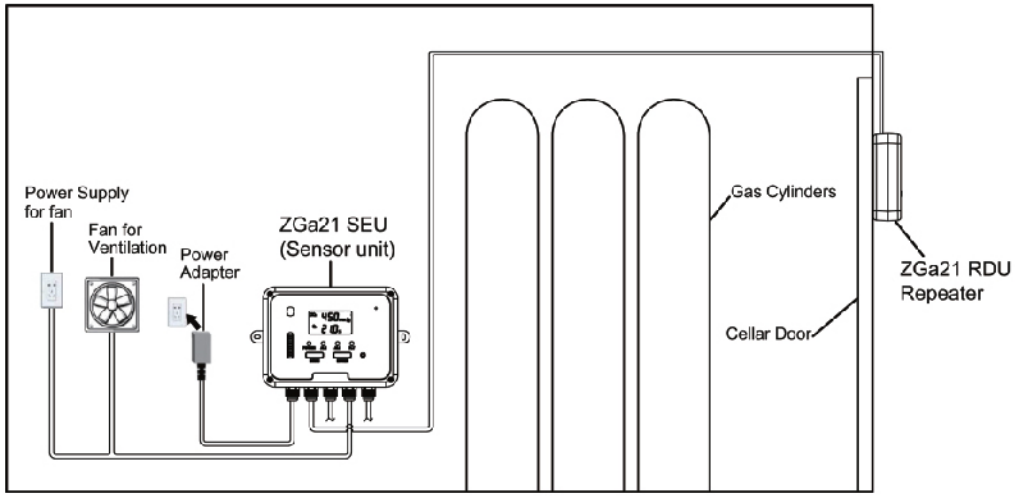


Q. Green LED (Power indication)	V. Mode Button
R. Red 1 LED (AL1)	W. Enter Button
S. Red 2 LED (AL2)	X. Buzzer
T. Yellow LED (Fault indication)	Y. RJ45 Plug for next RDU (Output)
U. LCD display	Z. RJ45 Plug for SEU (Input)

Display in the sequence



(**ZGa21en/ZGa21enc**)





INNOVATION RADIANT

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