

High concentration of CO₂ in confined spaces may lead to health problems ranging from Headaches and Fatigue, asphyxiation and Death

Ensure the Safety of CO₂ Storage Areas

- NDIR (Non-Dispersive Infrared) technology is used to measure CO₂ concentration up to 50,000 ppm (parts per million)
- 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 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



ZG10U SEU



ZG10U RDU

ZG10U SERIES



Breweries / Wineries



Cellars



Beverage Dispensing Areas



Fast Food Outlets

The ZG10U CO₂ Monitor is designed to detect the presence of Carbon Dioxide in the ambient air to protect people in confined spaces. High concentrations of CO₂ in confined spaces are dangerous, and may lead to health problems ranging from headache and fatigue asphyxiation and death. The ZG10U CO₂ Monitor which equipped with audible alarm and visual indication which will activate when CO₂ concentration reaches a 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 ZG10U CO₂ Monitor can be widely used in CO₂ storage areas, breweries, wineries, cellars, beverage dispensing areas, and fast food outlets.

Specifications

Performance-CO₂ Channel

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

Resolution : 10ppm

Accuracy : ±100 ppm or ±5% of reading whichever is greater

Repeatability : ±20 ppm @400ppm

Annual Drift : <20 ppm/Year@400ppm

Temperature Dependence : ±0.2% of reading per °C or ±2 ppm per °C, whichever is greater, referenced to 25°C

Pressure Dependence : 0.13% of reading per mm Hg

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

AL1 (First Alarm Level) : 0.5 / 1 / 1.5 / 2 %, Default AL1= 1.5%

AL2 (Second Alarm Level) : 1.5 / 2 / 2.5 / 3 / 3.5 / 4 %, Default AL2= 3%

Sound Alarm : 80db@10cm

Warm-Up Time : <60 seconds at 22°C

Temperature Specification

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

Display Resolution : 0.1°F (0.1°C)

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)

General Operating Conditions

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

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

Storage Temperature : -20 ~ 60°C(-4~140°F)

Power Supply & Relay Output

Power Supply : AC adapter 110/220 VAC

AC Input	Voltage	100 ~ 240 VAC
	Frequency	50 / 60 Hz
	Power Requirement	1 W maximum @ 115 VAC 60 Hz 2 W maximum @ 230 VAC 50 Hz

AC/DC Output Voltage 6VDC

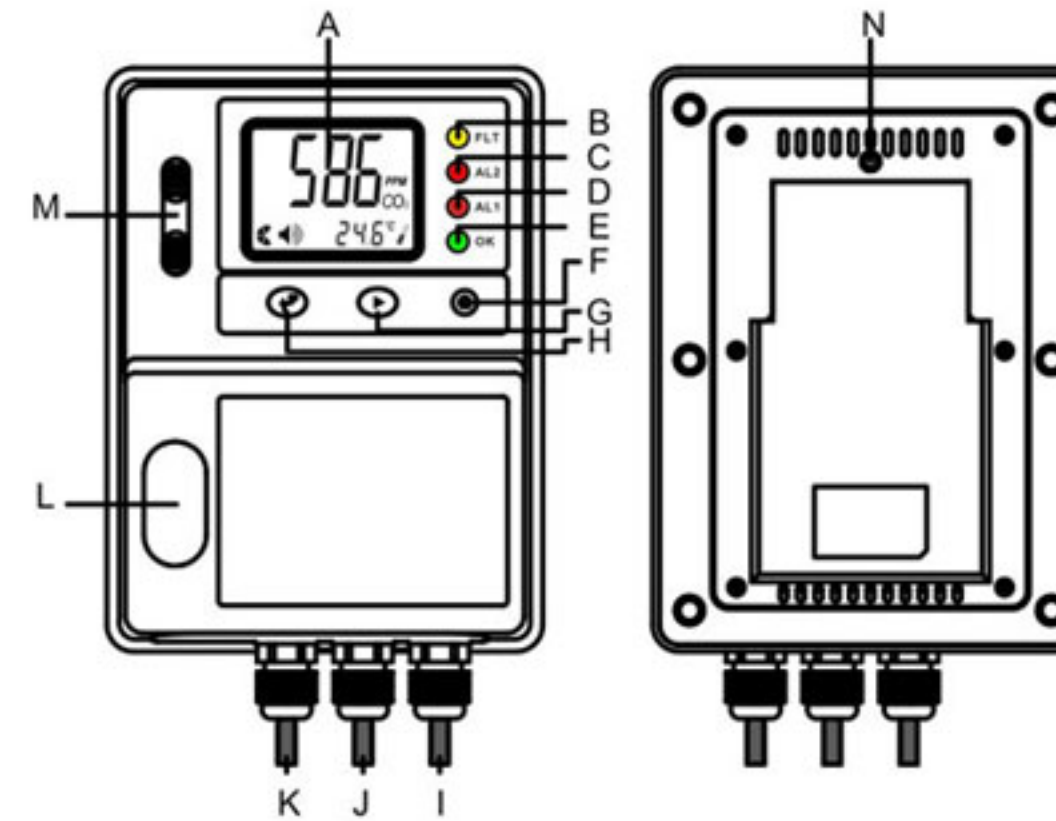
Power 1.8 W

Peak Input Current : 0.3 A from 6 VDC

Relay Output : 30 VDC or 250 VAC, max 2A, SPST, Normally Open

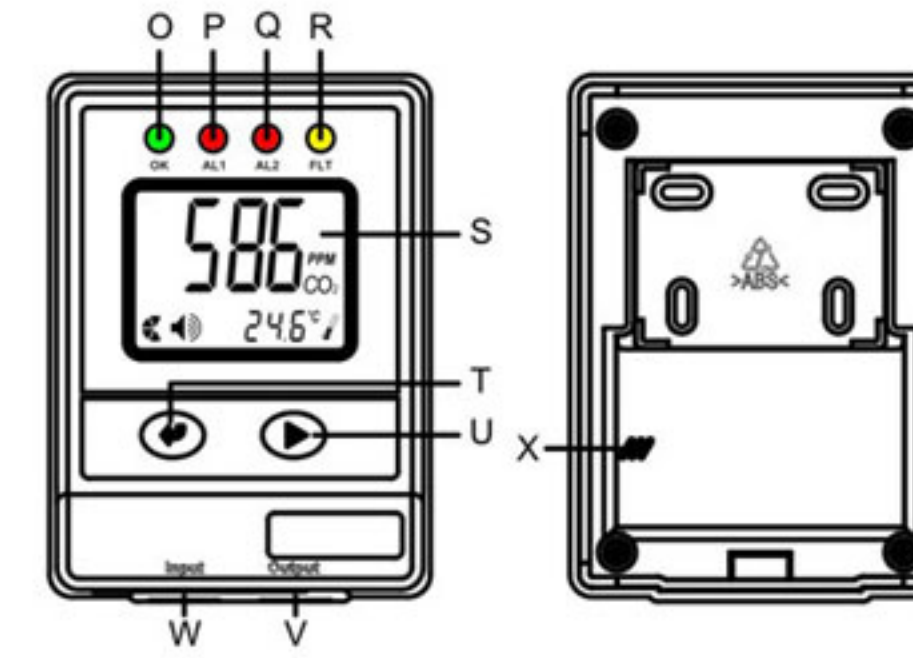
Specifications are subject to change without notice.

SEU (Sensor unit)



A. LCD display	H. Enter Button
B. Yellow LED (Fault indication)	I. Communication Cable to RDU
C. Red 2 LED (AL2)	J. Relay output
D. Red 1 LED (AL1)	K. Power Supply
E. Green LED (Power indication)	L. Rubber Cap
F. Reset Button	M. Gas Entry
G. Mode Button	N. Buzzer

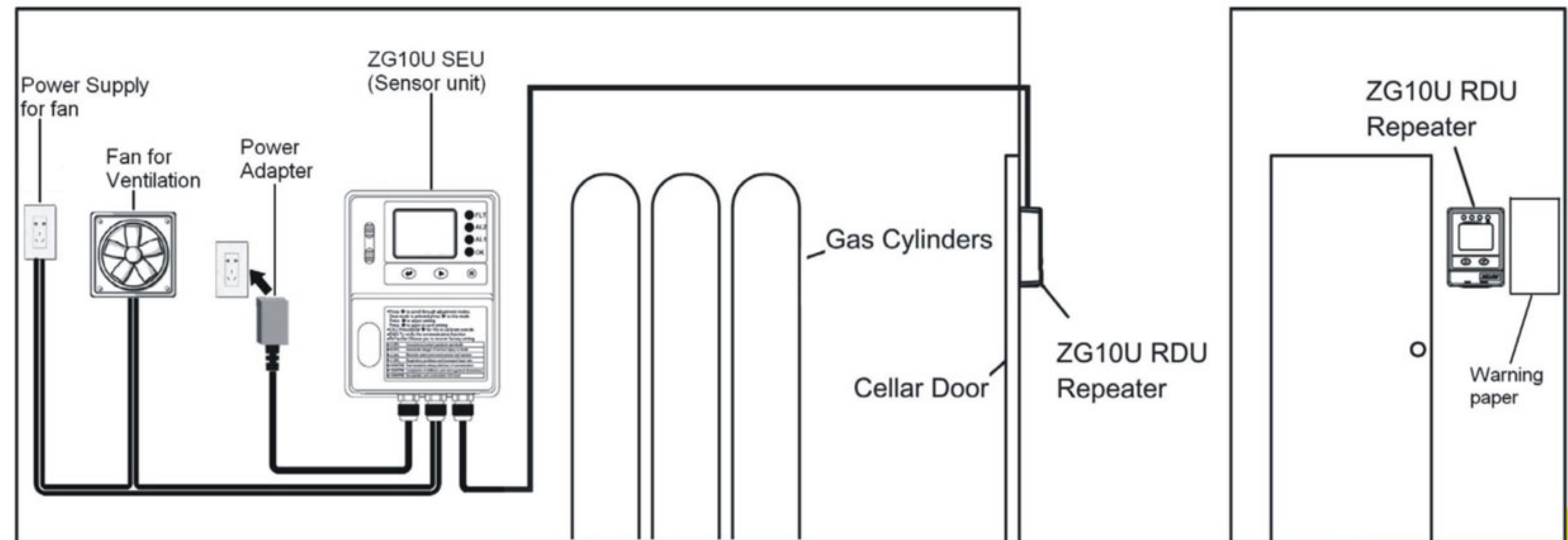
RDU (Remote Display Unit)



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



(Display Features and Modes)



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Monitor the invisible

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