

CO₂ SMA Series Controller



new! Slim, Half-size SMA-series

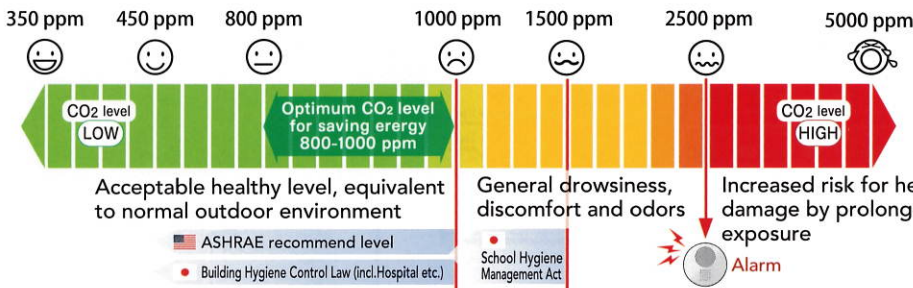
8 Functions

- 1 High precision NDIR Dual-cell Sensor
- 2 Enable to Change over Ventilation on/off by CO₂
- 3 Use in Plant factory and Greenhouse
- 4 Digital Output Selectable (RS-232/RS-485 Modbus)
- 5 Cover that covers display/buttons
- 6 Measureable 0 ~ 5000 ppm
- 7 Analog Output (4 ~ 20 mA, 0 ~ 10 V) is fixed with 0 ~ 5000 ppm (Relay and Analog Simultaneously Usable)
- 8 Temperature output by resistance value (Pt 100 Ω)



Size: W75xH120xD22 mm

Merit	Measure and Show Indoor CO ₂ ppm	Visible Air Condition
	Reduce energy consumption by automatic control	Reduce Energy Cost
	Improve Work efficiency , Avoid Sleepiness	Improve Work / Study Environment



Inform you of CO₂ level by monitoring CO₂ concentration

Standard about the CO ₂		
U.S.A.	JAPAN	
ASHRAE recommend level	Building Hygiene Control Law (incl.Hospital etc.)	School Hygiene Management Act
1000 ppm or less	1000 ppm or less	1500 ppm or less



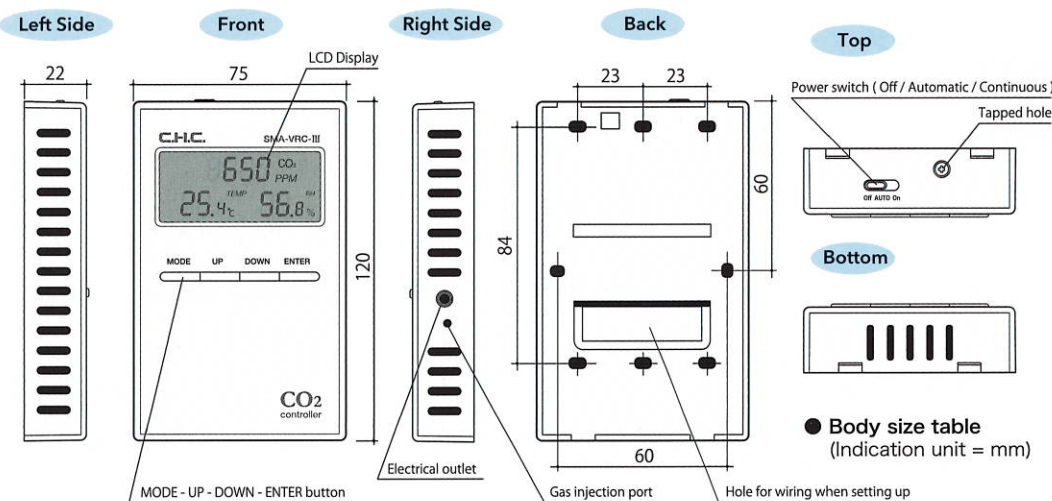
Contact Us **+81-42-728-6660** www.chcsys.net



*For further information, please contact us at your convenience *Reception Time 9:00am~5:30pm (exception Sat.Sun.Holiday)
 Note: Non-branded versions of this product are available upon request.

C.H.C.System Co.,Ltd. plans/develops/manufactures made in Japan Professional CO₂ Controllers

		SMA-VRC-III	new SMA-VRC-IV
		RS485 Modbus RTU / CO ₂ and Temperature dual output Controllable by Relay Output / Proportional Output	RS485 Modbus RTU / Proportional Output Capable to temperature output by resistance value (Pt100Ω)
CO ₂	Measurement Method	Non-Dispersive Infrared Sensor (NDIR), 2-beam measurement method	
	Temperature Dependence	±0.2 % of measuring value per °C or ±2 ppm whichever is greater (referenced to 25 °C (77 °F))	
	Pressure Dependence	0.13 % of measuring value per mmHg with high adjustment function (time of shipment 0 m)	
	Repeatability	±20 ppm @ 400 ppm	
	Response time	About 2 min (90 %)	
	Warm-up time	About 60 sec	
Accuracy		CO ₂ : ±75 ppm or ±5 % of reading, whichever is greater (0 ~ 3000 ppm) , Temperature : ±1.5 °C	
Term of Use		Temperature : 0 ~ 50 °C (32 ~ 122 °F), Relative Humidity : less than 95 % Avoid areas with dew	
Measurement Range		CO ₂ : 0 ~ 5000 ppm, Temperature : 0 ~ 50 °C (32 ~ 122 °F), Relative Humidity : 20 ~ 90 %	
Update Period		5 sec	
User Setting Value	CO ₂	ALARM1 : 100 ~ 4980 ppm, ALARM2 : 120 ~ 5000 ppm	
	Temperature	ALARM1 : 0 ~ 49 °C (32 ~ 120 °F), ALARM2 : 1 ~ 50 °C (34 ~ 122 °F)	
Relay Output		MAX 2 A (30 VCD or 250 VAC), SPST switch, Normal Open (ON : more than AL2, OFF : less than AL1)	
Analog Output	Current	4 ~ 20 mA : CO ₂ or Temp (inversion setting available)	
	Voltage	0 ~ 10 V : CO ₂ or Temp (inversion setting available)	
	Range	0 ~ 5000 ppm and 0 ~ 50 °C (32 ~ 122 °F)	
	Resistance	Pt 100 Ω Class A : Temp	
Digital Output		RS232C RS485 ModBus RTU	
LCD Display Function		full display/CO ₂ only/Temp and RH/non-display (4 versions available)	
Power Supply		DC24 V	
Power Consumption		About 1.5 W	
Dimensions, Weight		W75×H120×D22 mm, 130 g	
Sensor Life Prediction		About 15 years (better to calibrate every 2-year)	
Warranty Period		1 year (better to change every 5-year)	
Relay · Analog output system diagram Arrangement pattern		<p>CO₂ and Temp</p>	<p>CO₂ and Temp × 2</p>



ABS resin cover covers display and buttons.

- Please use the cover when LCD display and buttons are not required.
- For prevent erroneous operation and mischief.

Dimensions: W79×H124×D24 mm