The Life, Seeing CO_2 Concentration

CO_2 Controller

NEW NMA Series

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

NMA Series

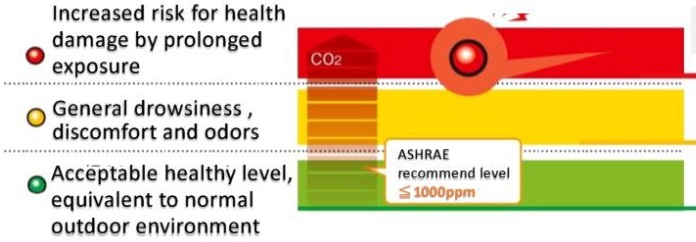
7 Functions

Tokyo Trial Order Authorization System
Certified Product

1. Enable to Change over Ventilation on/off by CO_2
2. Analog Output (4～20 mA ・ 0～10 V)
   Connectable to Air-Conditioner ・ Data logger
3. Use in Plant factory ・Greenhouse
   (Use with CO_2 container / generator)
4. High precision NDIR Dual-cell Sensor
   (Non-Dispersive Infrared Technology)
5. Easy Installation / Replace / Maintenance / Re-calibration
6. Digital Output Selectable
   (RS-232 / RS-485 Modbus)
7. Duct installation Kit Available

Size: W 120 x H 120 x D 28 mm

■ **New! Built-in Data logger Version**
(Enable to record / analyze the data)



Inform you of CO_2 level by monitoring CO_2 concentration

Alarm

Fan

Air conditioning facilities/
Air conditioner/Air cleaner etc.

A Standard about the CO_2	
Building Hygiene Control Law (incl. Hospital etc.)	School Hygiene Management Act
1000 ppm or less	1500 ppm or less

Contact Us

+81-42-728-6660 www.chcsys.net

C.H.C. SYSTEM CO.,LTD.

※For further information, please contact us at your convenience ※Reception Time 9:00am～5:30pm(exception Sat.Sun.Holiday)

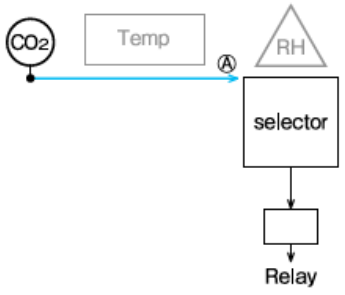
Note:Non-branded versions of this product are available upon request.

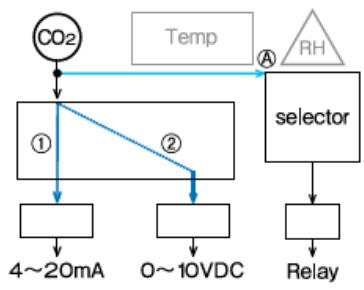
C.H.C.System Co.,Ltd. plans / develops / manufactures made in Japan Professional CO_2 Controllers

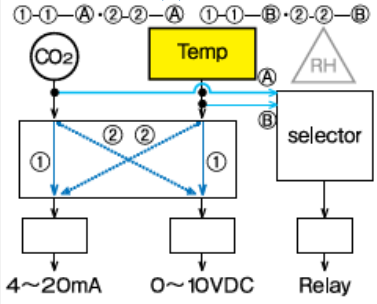
Design & Sales : C.H.C. System CO., LTD. Tokyo, JAPAN

NMA-PR-R Standard Type (RS232C) $400	NMA-VRC-Ⅱ Standard Type (RS232C) $450	NMA-VRC-Ⅲ Standard Type (RS232C) $500
	NMA-VRC-ⅡM RS485 (Modbus) $500	NMA-VRC-ⅢM RS485 (Modbus) $550
NMA-PR-RD Built-in Data Logger $500	NMA-VRC-ⅡD Built-in Data Logger $550	NMA-VRC-ⅢD Built-in Data Logger $600
Suggested Retail Price (excl.tax)	(AC24V type) Suggested Retail Price (excl.tax)	(AC24V type) Suggested Retail Price (excl.tax)
Enable to Change over Ventilation on / off	Enable to control Dumper by Relational output	Enable to control by Temperature and CO_2

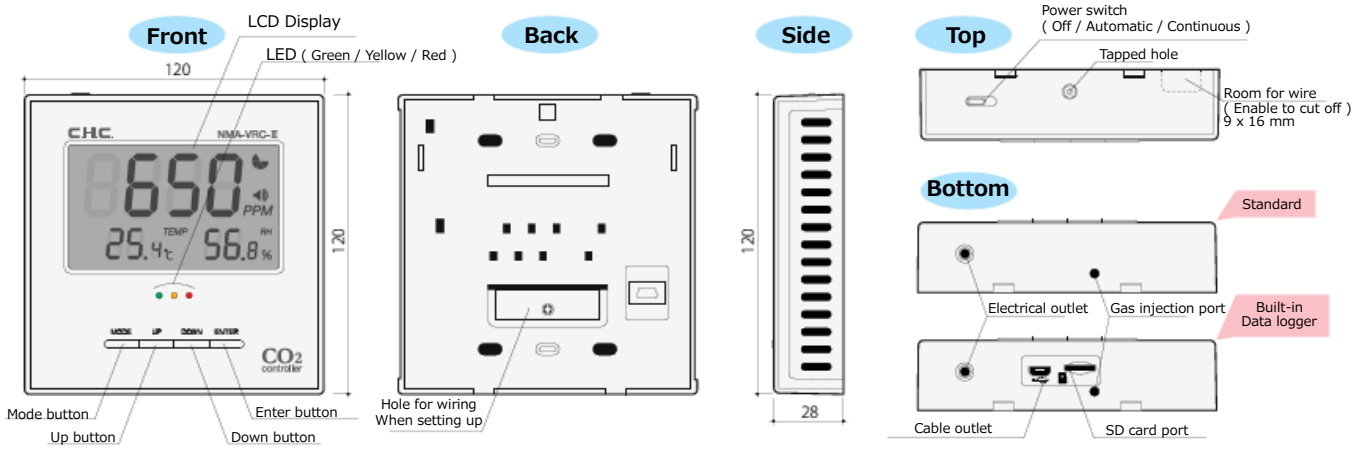
Usage	Relational Output	Relay and Proportional output	
Display Function	LCD display on/off selection (3 versions available)		
Measurement Method	NDIR (Non-Dispersive Infrared Technology) Dual Sensor		
Measurement Range	CO_2 : 0 ～ 3000 ppm	Temperature : 0 ～ 50 ℃ (32 ～ 122 ˚F), Relative Humidity : 20 ～ 90 %	
Proportional Output		CO_2 Only	CO_2 and Temperature dual output
		CLO (Current Output) : 4 ～ 20 mA DAC (Voltage Output) : 0 ～ 10 VDC	
Relay Output	CO_2 Only		CO_2 and Temperature setting selections
	MAX 2 A (30 VDC OR 250 VAC MAX 2 A), SPST switch, Normal Open (ON : more than AL2, OFF : less than AL1)		
	Inversion setting available	Setting up continuous / proportional control at an analog setting value, inversion setting available	
AL1 AL2 User setting value (CO_2 ppm)	AL1 / 100 ppm ～ 2980 ppm AL2 / 120 ppm ～ 3000 ppm (AL1 AL2 value inversion setting available)		
AL1 AL2 User setting value (Temperature)			AL1 : 0 ～ 49℃(32 ～ 120 ˚F) AL2 : 1 ～ 50℃(33 ～ 122 ˚F) (AL1 AL2 value inversion setting available)
Power Supply	AC100 ～ 240V	DC 24V SPST switch, Back terminal connection with AC adapter (option)	
Update Period	7 sec (Update Period)		
Terms of use	Temperature : 0 ～ 50 ℃ (32 ～ 122 ˚F) ・ Relative Humidity : less than 95% Avoid areas with dew		
Temperarure Dependence	± 0.2 % of measuring value per ℃ or ±2 ppm whichever is greater (referenced to 25 ℃ (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	< 2 min		
Warm up time	< 60 sec		
Accuracy	CO_2 : ± 75 ppm or ± 5 % of measuring value, Temperature : ± 1.5 ℃		
Alarm	Alert 4 times when more than AL1, 8 times when more than AL2. Silent mode available		
Dimensions	W 120 mm X H 120 X D 28 mm 220 g		
Sensor Life	> 5-year (better to re-calibrate every 2-year)		
Warranty Period	1 year (better to change every 5-year)		
Relay・analog output system diagram Arrangement pattern	NMA-PR-R(D) CO_2 Only Ⓐ	NMA-VRC-Ⅱ(M)(D) CO_2 Only ①-Ⓐ ②-Ⓐ	NMA-VRC-Ⅲ(M)(D) CO_2 and Temp ①-①—Ⓐ・②-②—Ⓐ ①-①—Ⓑ・②-②—Ⓑ







● Body size table (Indication unit = mm)



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