

# MULTI-CHANNEL GAS MONITORING SYSTEM

## RM-5000 series

### MODEL

GP-5001 NC-5001 NC-5001W	Combustible gases
NP-5001	Combustible gases Inert gases
SP-5001	Combustible gases
GH-5001	Toxic gases
EC-5002 (i)	Toxic gases
OX-5001	Oxygen
OX-5002 (i)	Oxygen
RM-5002 (i)	4-20mA input for Combustible gases Toxic gases Oxygen etc.
RM-5003	etc.



### ▶ APPLICATION

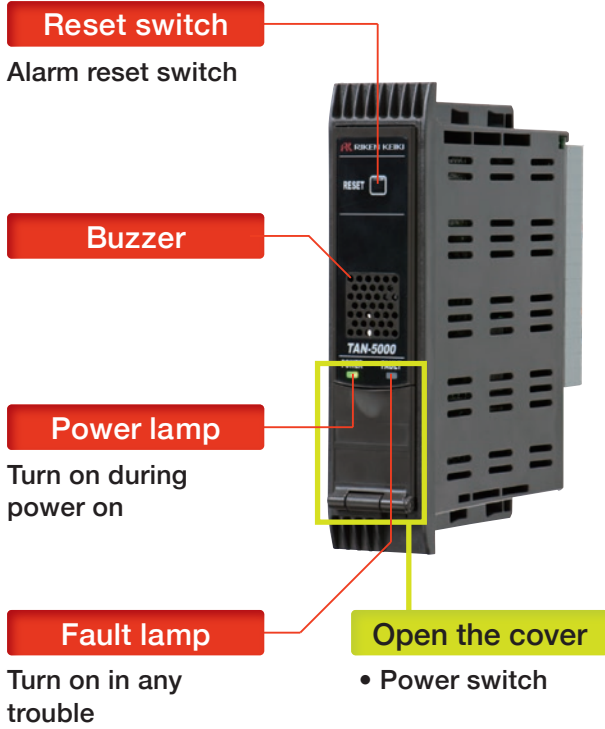
- LPG, LNG utilities
- Refineries
- Chemical plants
- Semi-conductor manufacturing plants
- Engineering, public works
- Power station
- Iron and steel works
- Automotive Plating Processes

### ▶ FEATURES

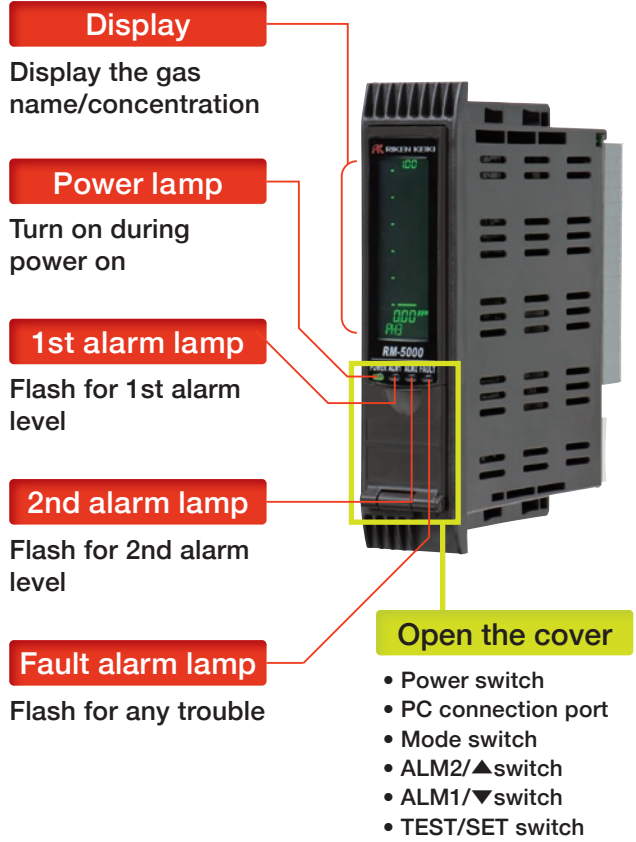
- Compatible with RM-570A/580 series
- Bar meter and digital multi-indication
- High level of visibility
- Low power consumption
- Support RS-485 communication function
- RoHS Compliant
- Global standard

# COMPONENT DESIGNATIONS

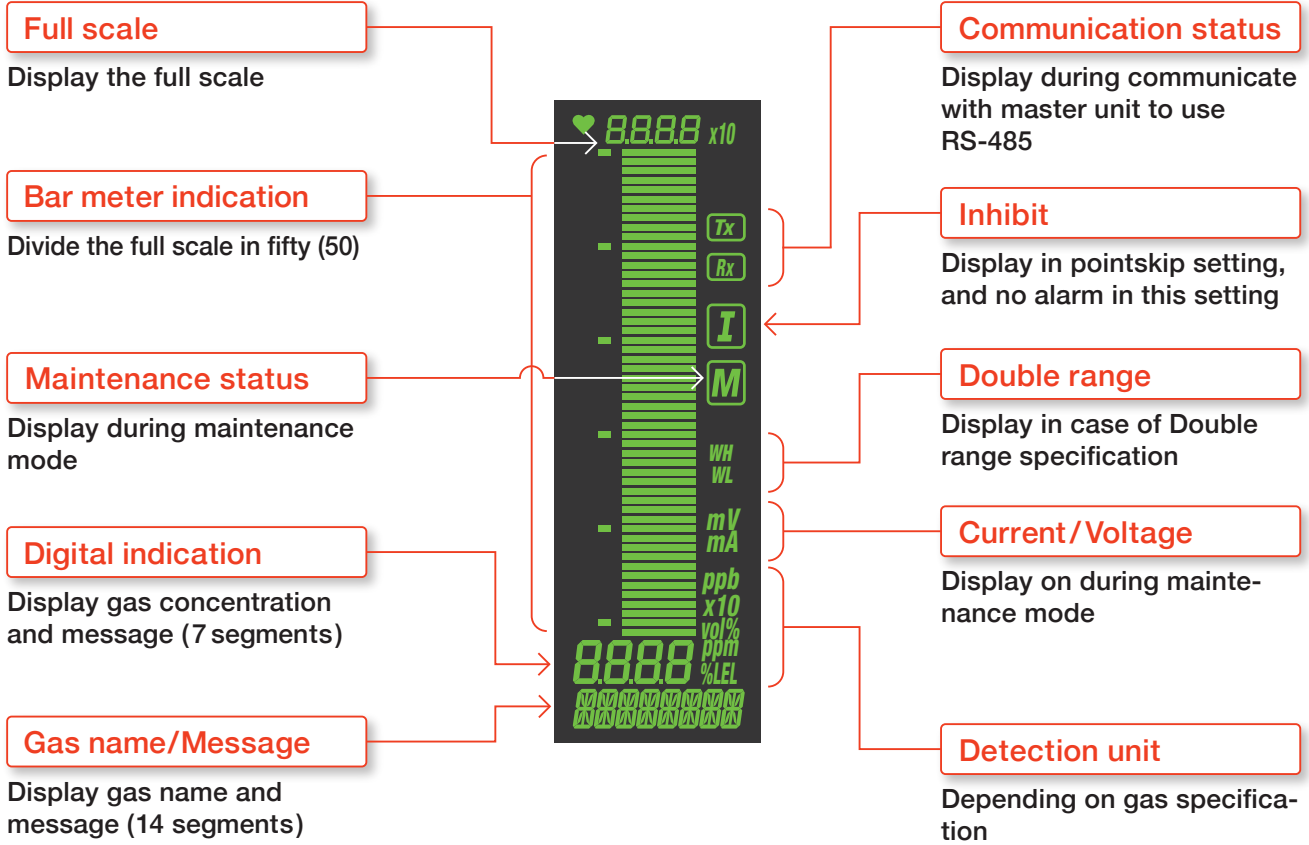
## BUZZER UNIT



## INDICATOR/ALARM UNIT



# INDICATION



## 3-COLOR LCD INDICATION

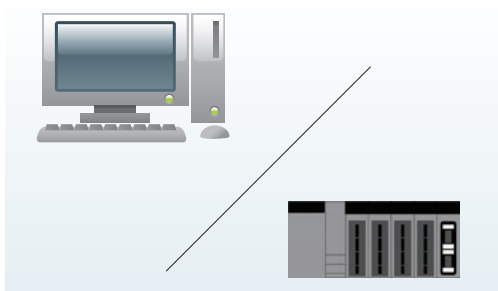
Display indicates gas concentration by two ways, Bar meter and Digital meter. Also LCD will change the color depending on the concentration, so you can confirm detection condition from a distance.



## Extend monitoring system

Maximum 32 points can be connected to use RS-485

Master unit PC, PLC, DCS, etc..



RS-485



## Compatible with RM-570A/RM-580 series

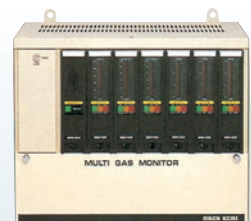
It can be used with existing Multi/Single case of RM-570A/RM-580 series by use of connection case 5000-CC without new installation works. Also it is compatible with replacement to use existing facilities for expansion.

Indicator/Alarm unit  
RM-5000 series

Connection case  
5000-CC



RM-570A/RM-580 series  
Multi-case



RM-570A/RM-580 series  
Single-case



# SPECIFICATIONS

## Indicator/Alarm unit

RM-5000 series	GP-5001 NC-5001 NC-5001W	NP-5001	SP-5001	GH-5001	EC-5002 EC-5002i	OX-5001	OX-5002 OX-5002i	RM-5002 RM-5002i	RM-5003	
<b>Detection gas</b>	Combustible	Combustible Inert gases	Combustible /Toxic		Toxic	Oxygen		Combustible Toxic Oxygen		
<b>Indication</b>	Character LCD (Digital and bar meter <Green, Orange, Red: 3-colors>)									
<b>Type of acceptable detector head</b>	Catalytic combustion/ New ceramic type	Thermal conductivity type	Hot-wire semiconductor type	Semiconductor type	Electrochemical type	Galvanic cell type		4-20mA outputs 2-wire type 3-wire type		
<b>Acceptable input signal</b>	Direct sensor signal				4-20mA output	Direct sensor signal	4-20mA output			
<b>Applicable cable</b>	CVW-4C	CVVS-4C	CVW-4C	CVVS-3C	CVVS-2C				CVVS-3C	
<b>Max distance</b>	Max 2.0km					Max 600m	Max 2.0km	Depending on the detector		
<b>Output signal</b>	Output of electric power transmission (non-isolated) 4-20mADC, max loop load 300Ω									
<b>Alarm indication</b>	Flashing or lighting lamp: Red(ALM1), Red (ALM2), Self-Latching or Auto reset, Lock-in									
<b>Fault alarm</b>	Orange lamp flashing (FAULT), Non-latching/Content indication									
<b>Alarm relays</b>	Normally energized or de-energized, Normally-open or closed contact Rated 0.5A at 100VAC, 1.5A at 30VDC (resistive)									
<b>Operation condition</b>	-10 ~ +40°C (14 °F to 104 °F), 10 ~ 90%RH (non-condensing)									
<b>Power supply</b>	24VDC ±10%									
<b>Power consumption</b>	MAX 7W				MAX 3W	MAX 2W	MAX 3W	MAX 2W		
<b>Dimensions &amp; Weight</b>	Approx. 29.6 (W) × 120 (H) × 92 (D) mm (1.16 (W) × 4.72 (H) × 3.62 (D) inch), 100g (3.52 oz)									
<b>Structure</b>	Card type with front display used enclosed in a case (a single-unit or multi-unit case)									

Specification subject to change without notice.

## Buzzer unit

Model	TAN-5000	TAN-5000L
<b>Common gas alarm function</b>	Self-latching	Lock-in
<b>Common gas alarm</b>	Buzzer sound (Released after reset)	
<b>Common fault alarm</b>	Auto reset	
<b>Alarm relays</b>	Normally energized or de-energized, Normally-open or closed contact	
<b>Operation condition</b>	-10 ~ +40°C (14 °F to 104 °F), 10 ~ 90%RH (non-condensing)	
<b>Power supply</b>	MAX 2W	
<b>Dimensions &amp; Weight</b>	Approx. 29.6 (W) × 120 (H) × 92 (D) mm (1.16 (W) × 4.72 (H) × 3.62 (D) inch), 80g (2.82 oz)	
<b>Structure</b>	Card type with front display used enclosed in a case (a single-unit or multi-unit case)	

Specification subject to change without notice.

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