RIKEN KEIKI

FOR SEMICONDUCTOR, LCD & SOLAR CELL FACTORIES

INTELLIGENT GAS DETECTOR

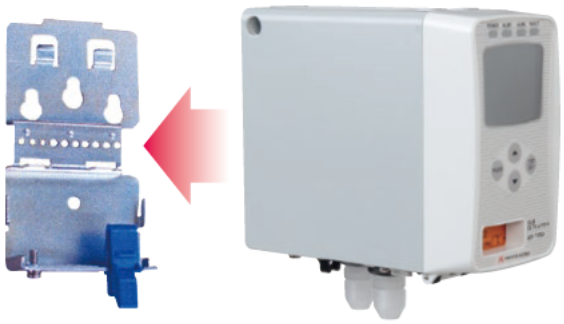
MODEL GD-70D series

- Common platform (Main/Sensor/Pump) for all detection methods
- Universal main unit (All sensor types)
- Multifunctional sensor unit (New Intelligent Sensor)
- No internal tubing (Main unit) /No coil (Pump unit)
- Front access/No tool required/Easy replacement of sensor and pump
- Large size LCD (Easily viewable)
- Minimal maintenance cost through enhanced troubleshooting firmware functions
- Smallest mounting space
- Simple upgrade from old units
- Environmentally friendly
- Global standard

RIKEN KEIKI Co.,Ltd.

NO NEED FOR SPECIAL TOOLS

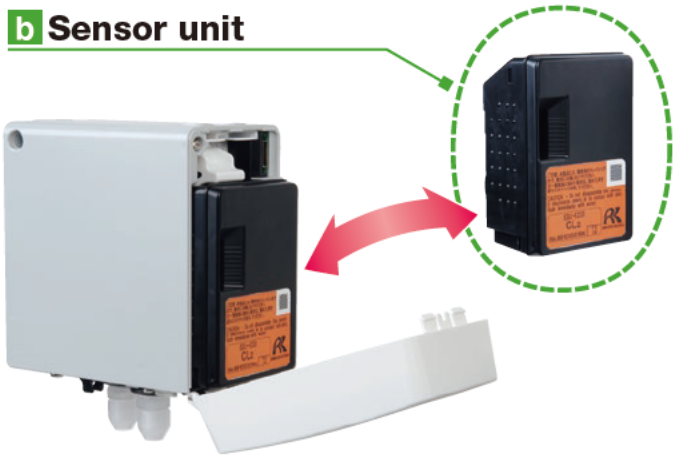
a Main unit



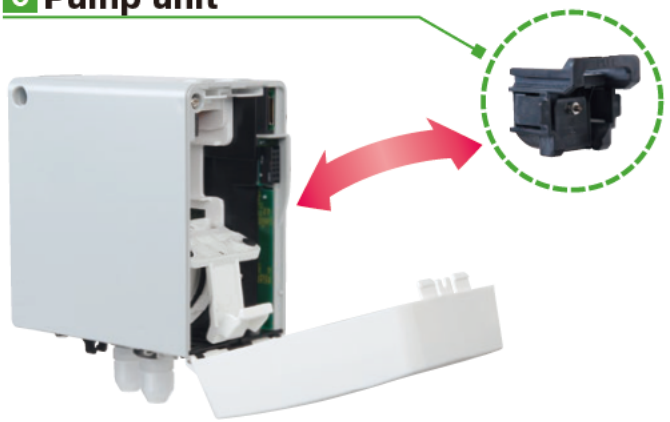
Wall mounting base plate

Main unit

b Sensor unit



c Pump unit



SIMPLE UPGRADE FROM OLD UNITS TO OTHER COMMUNICATION METHODS (4-20mA or POE)

Dimensions for installation

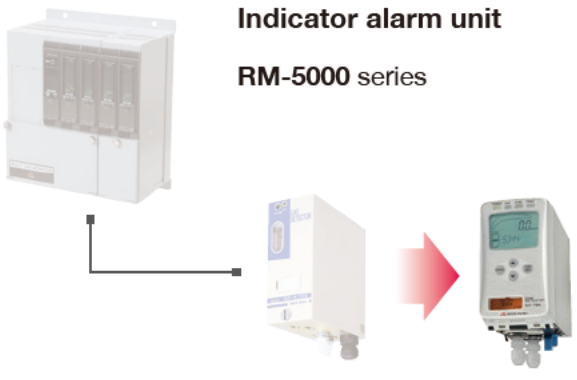
The Installation space for GD-70D is the same as our old units.

Power requirements

Power requirements for GD-70D is DC24V, same as our old units.

Cable

The cable for the GD-70D is the same as one used for existing Riken units.
You can use the existing cable installed for connecting to the GD-70D.

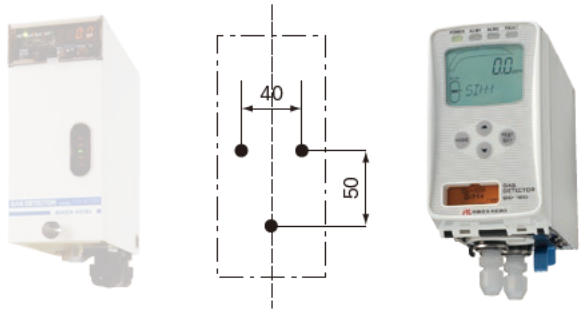


Indicator alarm unit

RM-5000 series

4-20mADC Transmission

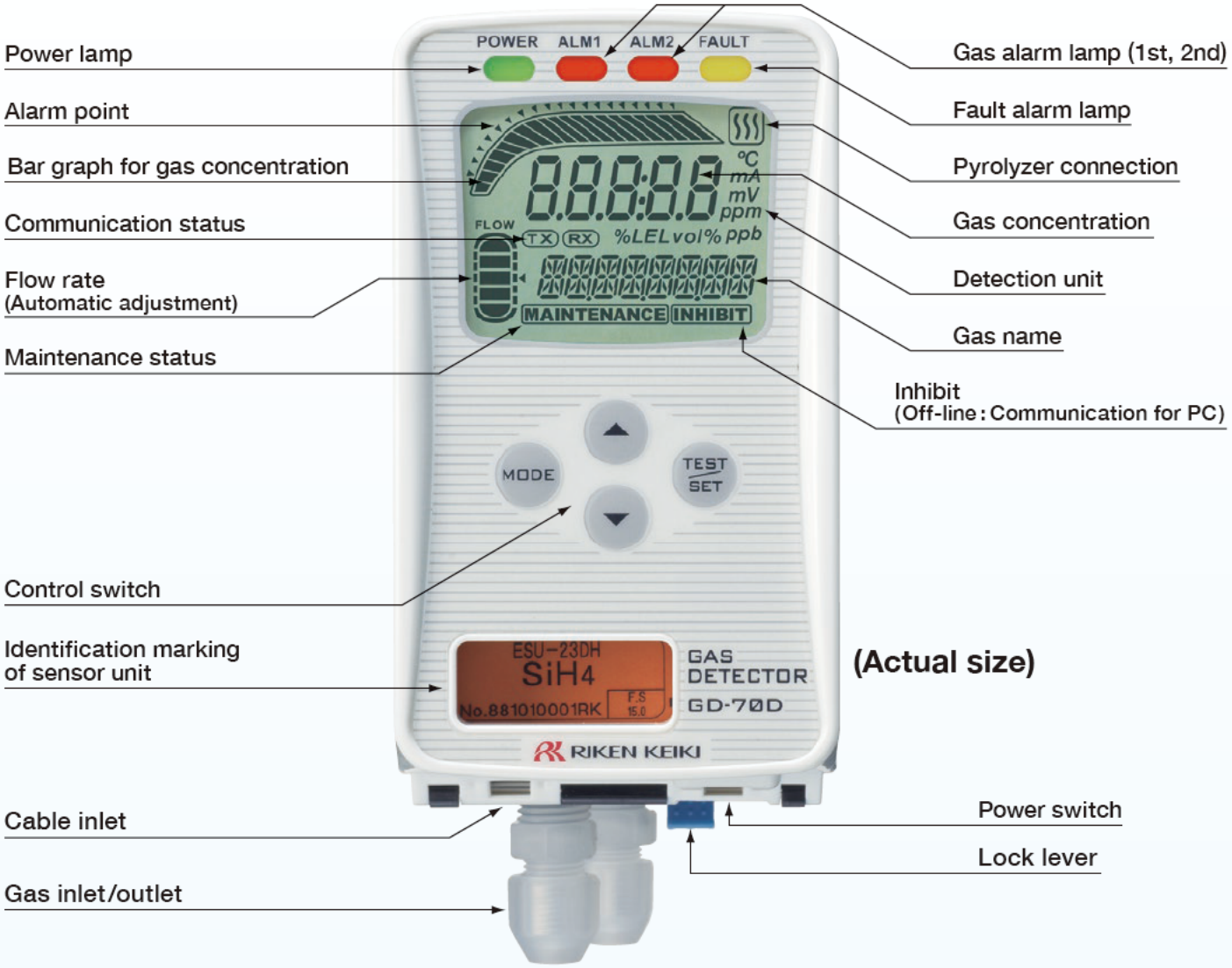
Sample installation space



Dimensions for installation

COMPONENT DESIGNATIONS

Front view



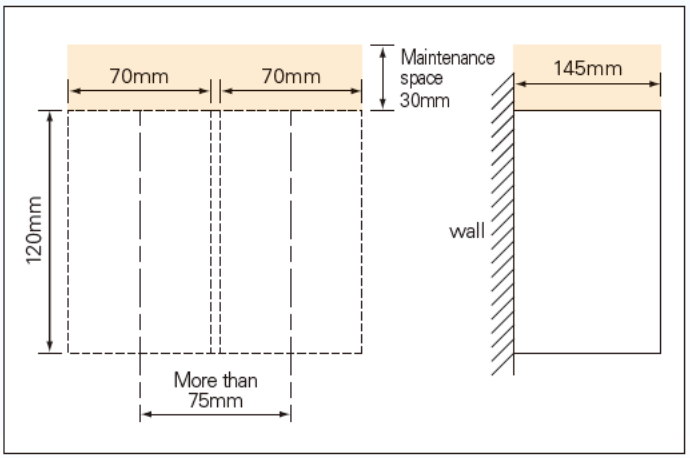
(Actual size)

Front view

(PLU-70)

INSTALLATION SPACE

Installation space can be saved.



SPECIFICATIONS

Main unit

Model	GD-70D	GD-70D-EA
Communication	4-20mADC	4-20mADC/POE
Detection principle	Several kinds of detection principle available. It depends upon measuring gas and range.	
Sampling method	Sample-drawing (Auto-adjustment of flow rate) 0.5ℓ/min ±10%	
Display	Large LCD display (White back light) Gas concentration Flow rate, Communication status, Pyrolyzer status, Gas name Error code, Content of error	
Display (Alarm lamp)	1st alarm : Red 2nd alarm : Red Fault alarm : Yellow	
External output	1st alarm/2nd alarm/Trouble alarm : Relay contact output for each alarm	
Self-diagnosis	System failure, Sensor failure, Flow failure, Communication failure (EA)	
Data logging function	Event history, Alarm history, Calibration history Alarm trend (180 sec before/after 1st alarm)	
Operating temp. & humidity	0-40˚C, 30-70%RH (non-condensing)	
Operational settings	All operational settings are user adjustable through front panel	
Power requirements	DC24V±10%, approx 1.5W (Max 4W including sensor unit) Note : Approx 2.5W (Max 5W) with SGU sensor unit	DC24V±10% / POE
Dimensions	70(W)×120(H)×145(D) mm (2.8"W×4.7"H×5.7"D)	
Weight	Approx. 0.9kg (2.0lbs), including sensor unit	
Mounting	Wall-mounting base plate by 2 or 3 screws	
Sampling tubing	4×6mm PTFE tubing recommended. PP half union fittings provided as standard accessories	
Gland	Cable type varies depending on communication method (Cable gland optional)	

Specifications subject to change without notice.

Sensor unit

Model	ESU	SGU	OSU	SSU
Detection principle	Electro-chemical cell	Semiconductor	Galvanic cell	Pyrolysis-particle
Gas detected and detection range	Refer to the table of the gases detected list on back page	0-2000ppm H_2 or CH_4 in air and others	0-25% O_2 in air	0-15ppm TEOS in air
Identification marking				
Self-diagnosis function	Sensor trouble, System failure			
Data logging function	Event history, Alarm history, Calibration history Alarm trend (60 sec before/after 1st alarm)			

For other gases and/or detection range, contact us or our nearest agent.

Specifications subject to change without notice.