

Application Introduction

Total Support for Power Plant Safety Management with Riken Keiki

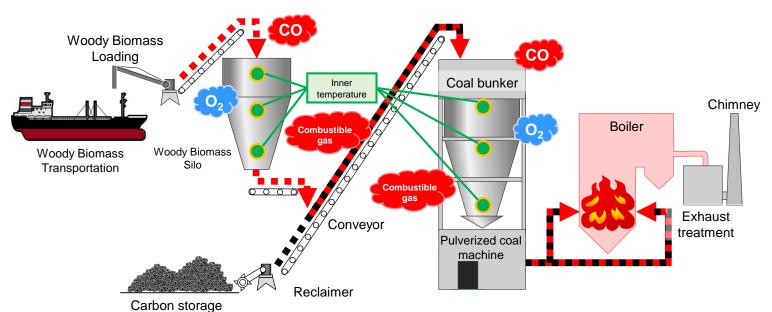


We provide safety management solutions for woody biomass and coal co-combustion power generation plant

Woody biomass and coal co-combustion power generation

There is coal bunker or silo which is usually used for woody biomass storage in the woody biomass and coal co-combustion power plant. And CO is easily formed by the smoke which is caused by woody biomass and coal co-combustion.

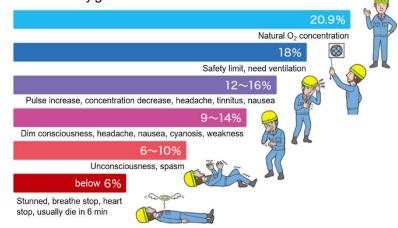




Woody biomass and coal co-combustion power generation plant

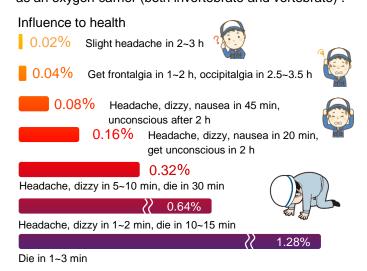
Oxygen deficiency

Oxygen deficiency: O₂ concentration below 18 %. O₂ is usually contained of 20.9 % in air. Which below 18 % (safety limit) may cause serious problems to our health. Additionally, those who go to help the workers that faint due to the oxygen deficiency might also fall because of the lack of oxygen.



Danger of CO toxicity

Carbon monoxide (CO) is usually formed by the combustion of fuel with insufficient oxygen. CO is a colorless, odorless, and tasteless gas that is slightly less dense than air. It is toxic to animals that use hemoglobin as an oxygen carrier (both invertebrate and vertebrate) .



Continuous monitoring solutions compatible for various facility safety management

Continuous monitoring in the coal bunker (Ex proof)

※ Request product catalogs for more detailed information

Smart transmitter Gas detector

Diffusion Ex proof

Model:









- Hydrogen acetylene explosion proof Ex proof structure (Exd II CT6X and Exd II CT5X) approval, can be used under hydrogen · acetylene atmosphere.
- HART® communication compatible! Can send digital signals with general analog 4-20 mA output, more communication available.
- Self-diagnosis equipped Self-diagnosis starts during the warm-up. If there was any trouble, the error code would be displayed instead of gas concentration value.
 - Dimension: approx. $148(W) \times 208(H) \times 88(D)$ mm Weight: approx. 2.5 kg (Depend on the model.)

% Can be attached to the alarm indicating unit RM-5000 series and RM-6000 series.

Continuous monitoring in the woody biomass storage silo (non-ex proof)

Intelligent gas monitor Model:

Pumped

GD-700

Combustible

Toxic



Universal designed!

With compatible sensor unit, whatever detection method you use, you can change your detection gas easily by only replacing the sensor unit.

Various communication compatible!

Besides standard analog 4-20 mA method, DC power line communication and Ethernet method are also available. Choose your best communication method!

Easy to read large LCD display! Gas species, concentration, bar graph, alarm point displayed. All information with one sight.



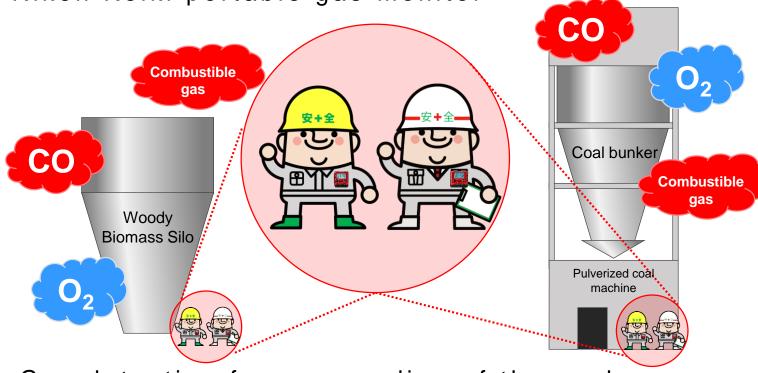
Change the target gas easily only

by replacing sensor unit

Dimension:

 $70(W) \times 120(H) \times 145(D) mm$ Weight: approx. 0.9kg

For worker and working site safety management Riken Keiki portable gas monitor



Gas detection for surrounding of the workers

Working site multi gas detection

※ Request product catalogs for more detailed information

Portable Gas Monitor

Model:

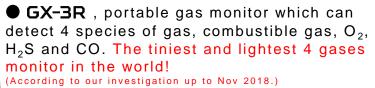


Diffusion

Diffusion

Ex proof





Size: approx. $58(W) \times 65(H) \times 26(D)$ mm Weight: approx. 100g

GX-3R Pro, 1 additional gas detectable! +1 gas species: SO2, CO2 More gas detection coming soon!

Português, Deutsch, 简体中文,繁体中文,조선말

GX-3R Pro, 11 languages display available!

日本語, English, рýсский, Español, le français, Italiano,

Portable Gas Monitor Model:

-3R Pro











By equipped with protect cover(optional), a tough design even falling from a height of 7m!

For worldwide use!





RIKEN KEIKI Co., Ltd.

Riken Keiki Co., Ltd. Overseas Business Department 2-7-6 Azusawa Itabashi-Ku, Tokyo 174-8744 Japan TEL: 81-3-3966-1113 FAX: 81-3-3558-9110 E-MAIL: intdept@rikenkeiki.co.jp

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