

RKH Engineering & Service (Thailand) Co., Ltd.

Company Profile And Digest Product Catalog

Authorized distributor in Thailand



FIRE & GAS DETECTION
TECHNOLOGIES INC.



FlameSpec IR3

FLS IR3-HD / FLS IR3 (without HD camera)

Triple IR (IR3) Flame Detector with HD video detects hydrocarbon fuel and gas fires at long distances and provides the highest immunity to false alarms with its triple spectrum design.

The unmatched detection times and distances are:

- 40ms for fast fire burst or explosion
- 1.5s for 1 Ft² [0.1m²] pan fire at 0-100 ft. [0-30m]
- 4s For 1 Ft² [0.1m²] pan fire at 100-230 Ft. [30-70m]
- RGB Colour or Near IR greyscale video output
- TCP-IP or analogue
- 4.9 megapixel resolution
- ONVIF profile S compatible
- Up to 200 video events record capacity



FlameSpec UVIR

FLS UVIR-HD / FLS UVIR (without HD camera)

A UV and IR detector, comprising an IR sensor that operates at a wavelength of 2.7 um and a solar blind UV sensor, the FLS UVIR-HD detects hydrocarbon-based fuel and gas fires, hydroxyl and hydro-gen fires, as well as metal and inorganic fires. The UV sensor has a special logic circuit that prevents false alarms from solar radiation.

- 5ms for fast burst of explosion
- 1.5s for 1 Ft² [0.1m²] pan fire at 0-50 ft. [0-15m]
- Up to 3s for 1 Ft² [0.1m²] pan fire at 50-100 ft. [15-30m]
- RGB Colour or Near IR greyscale video output
- TCP-IP or analogue
- 4.9 megapixel resolution
- ONVIF profile S compatible
- Up to 200 video events record capacity



FlameSpec IR3

FLS IR3-H2-HD / FLS IR3-H2 (without HD camera)

Detects "invisible" hydrogen (H₂) gas Fires at long distances and provides the highest immunity to false alarms with its triple spectrum design. A special filter in front of the HD camera allows you to see the "invisible" fire. The FLS IR3-H2-HD is fast, responding in:

- 40ms for fast fire burst or explosion
- 1.5s for 32" [0.8m] hydrogen fire at 0-66 ft. [0-20m]
- 4s for 32" [0.8m] hydrogen fire at 66-100 ft. [20-30m]
- RGB Colour or Near IR greyscale video output
- TCP-IP or analogue
- 4.9 megapixel resolution
- ONVIF profile S compatible
- Up to video 200 events record capacity



SD-1 Series

SD-1GP



Combustible Gas
Smart Transmitter
/Gas Detector

SD-10X



Oxygen
Smart Transmitter
/Gas Detector

SD-1GH



Combustible Gas
/Toxic Gas
Smart Transmitter
/Gas Detector

SD-1EC



Hydrogen Sulfide
/Carbon Monoxide
Smart Transmitter
/Gas Detector

Features

Explosion-proof class Ex d II C T5/6 X certified, allowing use in hydrogen and acetylene atmospheres
Simple operation by just assigning dedicated control keys
Compatible with a broad range of measurement environment and measurement range requirements
Supports external output 4 - 20 mA with HART.



SD-3 Series



Blue



Yellow



Silver



Features

- Incorporates newly developed "F sensor" for improved functionality and performance.
- Complies with different global standards (including planned certifications).
- Wide range of output options
- Rugged housing construction allows use even in harsh environments.
- Wide range of types to suit a variety of uses and installation environments

D58 Series



Features

- Can be used as explosion-proof products even in hydrogen atmospheres.
- Equipped with automatic flow rate abnormality detection function
- Integrated assemblies of replacement parts for improved maintainability
- Dust-proof/waterproof enclosure (IP67 equivalent)

GD-A80 Series



Features

- Capable of detecting combustible gases and toxic gases within various detection ranges
- Explosion-proof class Ex db II C T4 Gb allows use even in hydrogen and acetylene atmospheres.
- Support for suction type and aspirator suction type operations [* Requires a pump unit and power supply (available separately).]
- The GD-A80-70 can be used in hot environments up to 70 °C. Type list:

GD-A80 [catalytic combustion type, new ceramic type]

GD-A80V [semiconductor type]

GD-A80S [hot-wire semiconductor type]

GD-A80N [thermal conductivity type]

GD-A80-70 [catalytic combustion type]

GD-70D



For nitrous oxide detection



Features

- Uses universal design independent of detection principle to allow shared use of the main unit.
- Power consumption of just 20 % compared to previous models (electrochemical type)
- Uses reusable parts.
- Allows recycling of constituent materials to reduce environmental impact.
- Design complies with various international regulations.

600 Series



Indoor Carbon Monoxide Monitor
EC-600
600 Series



Indoor Oxygen Monitor
OX-600



Features

- Built-in pressure correction sensor eliminates reading fluctuations due to pressure changes. OX-600
- High visibility LCD screen illuminates in green, orange, or red, depending on the operational state.
- Allows selection of one of three power supply types to suit the usage environment: AC power, DC power, or dry battery specifications. OX-600/EC-600
- Allows remote measurement at distance up to 20 m with optional remote sensor.
- Complies with JIS T 8201:2010 (Oxygen deficiency indicator) requirements. OX-600



Indoor CO2 Monitor
RI-600

RM-6000 Series



Features

- Compact, lightweight
- Gas concentrations are displayed in two ways: bar meter and digital display.
- Uses independent units for easy mounting.
- Two-stage alarm function allows sequential gas alarm management.
- Features maintenance mode function to disable external alarms during maintenance.



RM-5000 Series



Features

- Supports a wide range of gas detector heads.
- Gas concentrations are displayed in two ways: bar meter and digital display.
- High-contrast 3-color LCD improves visibility of detection status.
- Equipped with RS-485 communication function (optional)



GP-6001

(For combustible gases)

GP-6001 (W)

(For combustible gases)

SP-6001

(For combustible gases/toxic gases)

GH-6001

(For combustible gases/toxic gases)

EC-6002

(For toxic gases)

OX-6001/OX-6002

(For oxygen)

RM-6002/6003

(For 4 - 20 mA transmission)

RM-6003T

(For 4 - 90 mA transmission)



GX-3R

Features

- One of the world's smallest, lightest portable four-component gas detectors
- Can be worn within breathing zone.
- Incorporates high-performance new R sensor with five-year sensor warranty (optional).
- Dust-proof, waterproof construction for peace of mind when working outdoors (protection level equivalent to IP66/68)



EN

EN 60079-29-1 (combustible gas), EN 50104 (oxygen)
EN 45544-1, EN 45544-2, EN 45544-3 (toxic gas)

Marine

Complies with MED (European Marine Equipment Directive).
JG (Ministry of Land, Infrastructure, Transport and Tourism)
type approved

JIS

Complies with JIS T 8201:2010 Oxygen deficiency indicator.
Complies with JIS T 8205:2018 Hydrogen sulfide indicator/alarm.

GX-3R Pro



Features

- Bluetooth-capable gas detector ·
- Incorporates high-performance new R sensor with ·
- three-year sensor warranty
- Operates on either rechargeable or dry batteries ·
- Dust-proof, waterproof construction for peace ·
- of mind when working outdoors
- (protection level equivalent to IP66/68)

EN 60079-29-1 (combustible gas), EN 50104 (oxygen)
EN 45544-1, EN 45544-2, EN 45544-3 (toxic gas)

EN

Complies with MED (European Marine Equipment Directive).
JG (Ministry of Land, Infrastructure, Transport and
Tourism) type approved

Marine

Complies with JIS T 8201:2010 Oxygen deficiency indicator.
Complies with JIS T 8205:2018 Hydrogen sulfide indicator/alarm.

JIS



GX-Force



Features

- Approx. 300 g lightweight easy-to-grip design
- Three-year sensor warranty
- Continuous operating time: Approx. 30 hours
- Survives 3 m drop testing.
- Intrinsically safe explosion-proof construction, flame-proof enclosure
- Protection rating equivalent to IP67



JIS

Complies with JIS T 8201:2010 Oxygen deficiency indicator.
JIS Complies with JIS T 8205:2018 Hydrogen sulfide indicator/alarm.
Complies with JIS T 8206:2020 Flammable gas detectors.

GX-6000



Features

- Capable of detecting up to six different gases including VOC simultaneously with a single unit. [Select up to two smart sensors with or without a base sensor.]
- Multilingual display support [Japanese, English, French, Spanish, etc.]
- Equipped with convenient functions, including panic alarm, man down alarm, and LED flashlight
- Allows selective benzene measurement (benzene select mode).



Marine

JG (Ministry of Land, Infrastructure, Transport and Tourism) type approved

O4 Series



Features

- Reduced hydrogen interference CO-04 [C-] / With dual sensor CX-04
- Long continuous operating times Choice of dry battery or rechargeable battery power supply
- Improved durability (withstands 7 m drop testing)
- Three-year sensor warranty*
- Extensive gas specification lineup with 12 models in the series
- Compact lightweight design that does not interfere with work

JIS

JIS T 8201:2010 OX-04G, JIS T 8205:2018 HS-04

Spare parts for gas detector



We can provide spare parts for gas detector and calibration and maintenance work in Thailand

Handheld Odor Meter

Highly Sensitive.
3 Models Available in Various Situations.



Finding odor source at factories, incinerator plants, or effluent treatment facilities etc. For various applications.

OMX-SRM



Evaluation for deodorizing at hospitals or nursing homes etc. For putrid odor such as ammonia.

OMX-ADM



TVOC measurement for monitoring IAQ condition.

OMX-TDM



Handheld Odor Meter is the most popular simplified tool for odor analysis, which enables to indicate the relative strength and odor classification numerically by comparing odor gas and purified air. The reading shown on display is calculated based on our original principle. Please select the suitable model to your intended use or condition.

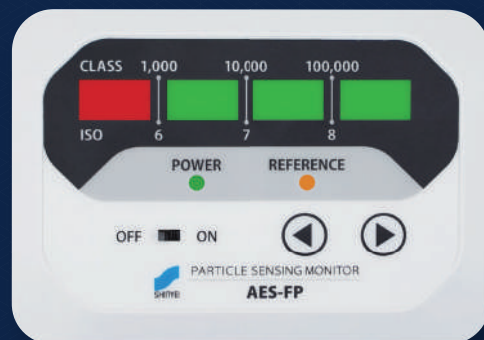
Particle -Sensing Monitor

AES FP Series

The best way to monitor cleanliness level in the manufacturing process of precision parts and work environments at low cost.

Features

- Capable to detect suspended particles at low cost.
- Easy-to-check 4 step LED display for cleanliness level Class 1,000 to 100,000.
- Detect particles over 0.3 μ m and over a few μ m* [*reference value].
- 5 models available for suitable application and communication interface.
- Detachable sensor unit to maintain continuous measurement during calibration.
- Temperature and humidity sensor available as an option.



AES-FPM(Monitor)
87 × 120 × 46.5(mm)

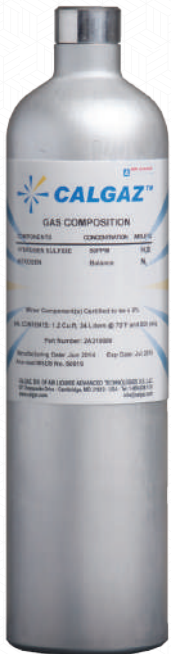


Measurement with sensor unit independently is possible.

AES-FPS(Sensor Unit)
57 × 83 × 23.7(mm)



Standard Gas



For nearly 40 years the Calgaz brand has been synonymous with unsurpassed quality, reliability and service. Our passion for quality is demonstrated in every product we ship. This commitment is what sets us apart from every other calibration gas provider.

Calgaz remains the industry leader because our customers continue to have complete confidence in the accuracy and reliability of our calibration gas products.

Calgaz creates partnerships with our customers in order to understand their needs and provide solutions that exceed their expectations.

If it's important to our customers, it's important to us.

Contents
34 liters

Dimensions
113/8" x 3"/289 mm x 76 mm

Most applications require Teflon™ tubing.

Weight
1 lb/0.44kg

Approvals

The Calgaz 2AL Cylinder meets European Standard EN12205, U.S. DOT-39, and Canadian TC-39M Specifications.

Recommended Equipment
Model 715, DFR 2000 Series, or Trigger regulators.
Connection is 5/8-18UNF thread.

Note: All mixtures are N.I.S.T. traceable.



Recommended Use

Recommended for use with non-reactive gas mixtures. Gases include, but are not limited to, mixtures containing: Air, Butane, Carbon Dioxide, Carbon Monoxide, Hexane, Hydrogen, Isobutylene, Methane, Nitrogen, Oxygen, Pentane and Propane.

May be used for flammable gas mixtures.

Recommended Equipment

Model 713 or DFR 2007 regulators.
Connection is CGA 600.

Model 715, DFR 2000 Series, or Trigger regulators
Connection is 5/8-18UNF thread. Most applications require Teflon™ tubing.

Mixture Tolerances

Minor components are certified to ± 2%.

WARRANTY

Non-Reactive Mixtures	36 months
H.S.H.S/CO/LEL/O ₂ /N ₂ O and CH ₄ Mixtures	24 months
NH ₃ , PH ₃ , NO, and HCN Mixtures	18 months
ETO, SiH ₄ , and HCL Mixtures	12 months
CL ₂ Mixtures	9 months
NO ₂ Mixtures	6 months



34 L.

58 L.

116 L.



Regulator



Model No.	Weight	Maximum Inlet Pressure	Demand Pressure	Inlet	Outlet	Gauge	For use with Calgaz Cylinders
713	0.6lb/ 0.28kg	500psig / 35bar	20psig/ 4.1bar	CGA600	3/16" Barb 4.8mm	0-500psig /35bar	Calgaz 34s
715	0.5lb/ 0.24kg	1000psig / 70bar	60psig/ 4.1bar	5/8-18	3/16" Barb 4.8mm	0-1000psig /35bar	Calgaz 34, Calgaz 48, Calgaz 105s, Calgaz 116
2001	1lb/ 0.45kg	0-1000psig / 70bar	3"H2O/ 5.6mm Hg	5/8-18 UNF	3/16" Barb 4.8mm	0-1000psig /70bar	Calgaz 2AL, Calgaz 8AL, Calgaz 6D, Calgaz 10AL
2004	1lb/ 0.45kg	0-1000psig / 70bar	3"H2O/ 5.6mm Hg	5/8-18 UNF	3/16" Barb 4.8mm	0-1000psig /70bar	Calgaz 2AL, Calgaz 8AL, Calgaz 6D, Calgaz 10AL

