Multi-Gas Detector
Model XP-302M

A bright warning lamp and loud alarm provide a clear alert. A replaceable, pre-calibrated plug & play sensor cartridge reduces cost of ownership.

Compact and Lightweight

Large, bright display with auto-backlight

4 gas simultaneous gas display

Oxygen O_2

Combustible

Hydrogen sulfide

Carbon monoxide

Temperature

Application
- Confined space
- Refineries
- Chemical plant
- Communications
- Shipyard and Maritime
- Fire Service
- Petrochemical plant
- Construction
- Electric power
- Water and Wastewater, etc.

We Placed Priority on Operating Ease... And Created Multi-purpose, Multi-gas Measurement

Simultaneously measures and displays oxygen, Combustible gas (methane), hydrogen sulfide, and carbon monoxide.

A replaceable, pre-calibrated plug & play sensor cartridge reduces maintenance cost.

The user can easily replace the sensor cartridge by removing four screws. This saves the labor and time ordinarily required for sensor replacement and gas detector calibration, and raises work efficiency. It also lowers running costs, and reduces the amount of maintenance work required.

A bright warning lamp and loud alarm provide a clear alert.

The alarm lamp is large and bright, and combines with an audible alarm that sounds at a frequency that can easily be heard. The alarm alerts surrounding people in virtually any kind of working environment.

An external alarm (provided with an 8m cable) can also be connected.

The buzzer and warning lamp alert people at a distance.

Data can be recorded.

The date and time, gas concentration, and temperature can be recorded at 30-second intervals for up to 150 hours. (Data-logging function)

* The optional Log Data Download software makes it possible to read data on a PC.

Compact and Lightweight.

The compact design and lightweight (approx. 870 g) ensure easy use in a variety of applications.

A three-gas type is also available.

A three-gas type is available for users who want to measure three types of gases.

* For details, refer to the ordering information.

A large, easy-to-see display shows the conditions of four gases simultaneously.

Select either the standard display, a graphic display, or an English display with a single button.
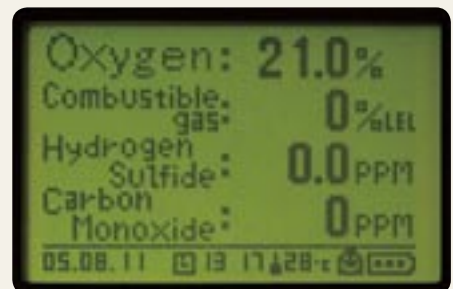A temperature display function is also included. The backlight automatically lights in dimly lit places.

Standard display (actual size)   Graphic display (actual size)   English display (actual size)

Model
XP-302M−□−□
Specification code

Choose one from A – C ――― Choose one from 1 – 4 ―――

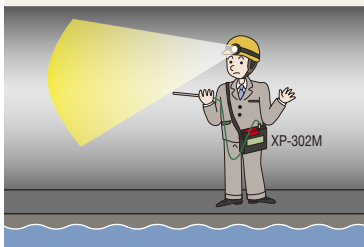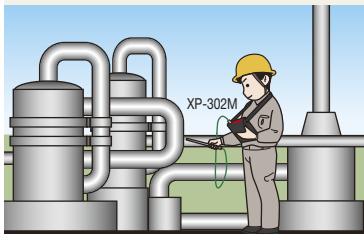|	
A	4 gases (Combustible, Oxygen, Hydrogen sulfide, Carbon monoxide)
B	3 gases (Combustible, Oxygen, Hydrogen sulfide)
C	3 gases (Combustible, Oxygen, Carbon monoxide)

＊ Combustible : Methane

1	with soft case and 1m sampling hose (with drain filter and probe)
2	with soft case, 8m sampling hose (with float) and carrying case
3	with aluminum case, 8m sampling hose (with float), an external alarm (with 8m cable) and AC adaptor
4	with aluminum case, 8m sampling hose with a hose reel (with float), an external alarm with a cable reel (with 8m cable) and AC adaptor

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1m sampling hose type with soft case

XP-302M-□-1 *1

Soft case

❶ 1m sampling hose (with drain filter and probe)

· This type has a 1m sampling hose (with drain filter and probe), and comes with a soft case.
· Well suited for ensuring the safety of workers, who can easily wear it for regular inspections and safety checks.
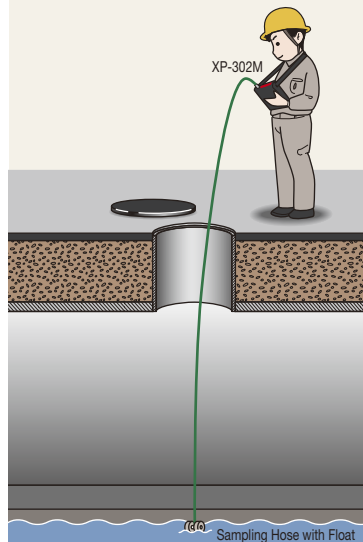

XP-302M

XP-302M

Keeps workers safe during regular factory inspections and worksite operations.

8m sampling hose type with soft case

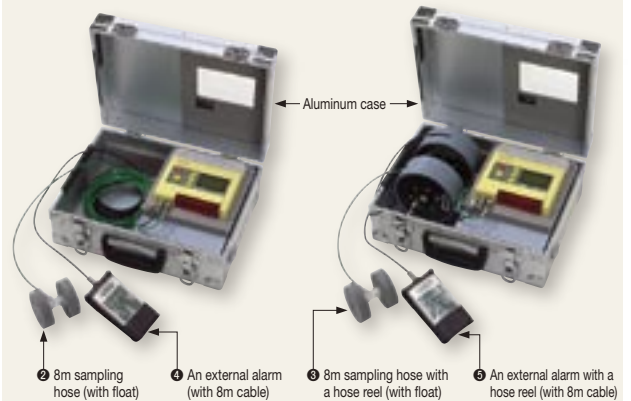## XP-302M-□-2 *1

Soft case

❷ 8m sampling hose (with float)

· This type has an 8m sampling hose (with float), and also comes with a soft case.
· Handheld inspections can be conducted to check safety conditions prior to starting work.
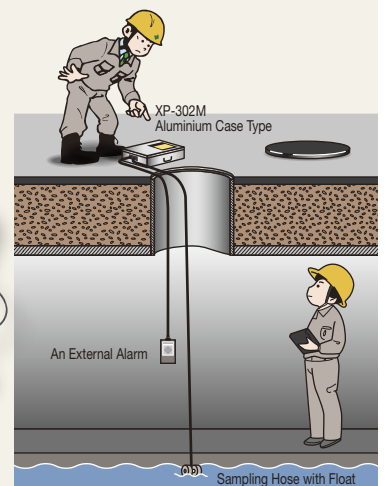

XP-302M

Sampling Hose with Float

Keeps workers safe before and during work in tanks and manholes, and in underground worksites such as tunnels.

Aluminum case type (Not explosion-proof)

XP-302M-□-3 *1   XP-302M-□-4 *1

Aluminum case

❷ 8m sampling hose (with float)   ❹ An external alarm (with 8m cable)   ❸ 8m sampling hose with a hose reel (with float)   ❺ An external alarm with a hose reel (with 8m cable)
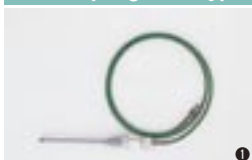
· This type is provided with an 8m sampling hose (with float), an external alarm, and an aluminum case.
· The sampling hose and external alarm can be used to check safety conditions before and during work while carrying the unit in its aluminum case.
· The compact, lightweight aluminum case ensures easy carrying. The case also resists vibration and impacts while carrying and using.

XP-302M Aluminium Case Type

An External Alarm

Sampling Hose with Float

Aluminum Case
Dimension   W373 × H282 × D152mm
Weight   5.4kg (XP-302M-3)
                  6.1kg (XP-302M-4)

Accessories

1m sampling hose type

1m sampling hose
(with drain filter and probe) ❶

8m sampling hose type

8m sampling hose
(with float) ❷

8m sampling hose with a hose reel
(with float) ❸

An external alarm

An external alarm
(with 8m cable) ❹

An external alarm with a cable reel
(with 8m cable) ❺

Specifications

Model	XP-302M			
Gases detected	Combustible Gas (Methane)	Oxygen	Hydrogen Sulfide	Carbon Monoxide
Detection Principle	Catalytic combustion	Galvanic cell	Controlled potential electrolysis	Controlled potential electrolysis
Gas sampling method	Sample-draw by internal electric sampling pump			
Measuring range (Service range)	0-100%LEL	0-25.0vol% (25.1-50.0vol%)	0-30.0ppm (30.1-150ppm)	0-150ppm (151-300ppm)
Accuracy (Repeatability)*1	< ±5%LEL	< ±0.5vol%	< ±1.5ppm	< ±10ppm to 100ppm < ±15ppm to 150ppm
Alarm set points	Level 1			
	10%LEL	19.5vol%	10.0ppm	50ppm
	Level 2			
	30%LEL	18.0vol%	15.0ppm	100ppm
Response time*2	with a 1m sampling hose	< 25 sec.	< 20 sec.	< 30 sec.	< 30 sec.
	with an 8m sampling hose	< 40 sec.			
Operating temperature & humidity	−10℃ to 40℃, 95% RH (non-condensing)			
Battery type	4 × AA Alkaline			
Display	A large LCD with backlight provides simultaneous and continuous readout of all gases being monitored. 3 user-selectable display modes (standard display / graphic display / English display).			
Alarms	90＋ dB buzzer, flashing LCD and warning lamp			
Operating hours*3	8＋ hours on 4 × AA alkaline cells (20℃, no alarm, no backlight and datalogging OFF)			
Safety design	Intrinsically safe design Ex ibd II BT3			
Functions	・Automatic backlight (in dim light or alarm condition) ・Zero adjustment ・Peak hold ・Buzzer control ・Low flow alarm ・Datalogging function (up to 150 hours) ・Buzzer stop ・Alarm test ・Display of remaining battery level, current time and temperature			
Demensions	Approx. 152 (W) × 152 (H) × 42 (D) mm			
Weight	Approx. 870g			
Standard accessories*4	XP-302M-☐-1	1m sampling hose (with drain filter and probe) and soft case			
	XP-302M-☐-2	8m sampling hose (with float), soft case and carrying case			
	XP-302M-☐-3	Aluminum case*5, 8m sampling hose (with float), an external alarm (with 8m cable) and AC adaptor			
	XP-302M-☐-4	Aluminum case*5, 8m sampling hose with hose reel (with float), an external alarm with a cable reel (with 8m cable) and AC adaptor			
Optional accessories*6	・Log data download software (for Windows 2000 or XP) ・20m sampling hose for float ・30m sampling hose for float			

＊ 1　Under identical conditions　　＊ 2　T90　　＊ 3　It depends on the environmental conditions, service conditions, storage period, and battery manufacturers
＊ 4　A three-gas type is also available　　＊ 5　Non explosion-proof type　　＊ 6　Please contact our dealers / distributors for available accessories

We received ISO 9001 certification for our design, manufacturing, sales, and service operations at our head office, branches and factories.

ISO 9001 JIS Q 9001 — JIA QUALITY ASSURANCE — MGMT.SYS. RvA C141
Registered No. : JQ 064C

We obtained the ISO 14001 International Environmental Management System certification at head office.

JAB EMS Accreditation RE001 — KHK ISO 14000 00ER·053

Safety warning
● Read the operating instructions thoroughly before use. Always operate in accordance with the instructions.
● Be sure to choose the sensor designed to detect the required type of gas. Use of the wrong sensor type could cause an accident.

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R100 Recycled Paper

* The information contained in this catalog is subject to change.

05092K-01 Printed in Japan