COSMOS

Portable Gas Detector
XP-3000 Series

Enhanced electronic features incorporated in a rugged, field proven design. This reliable, flexible system is perfect for compliance work, safety and environmental monitoring.

Enhanced Electronic features:

◆ **New digital display with a simulated analog scale and a digital numeric read out.**

◆ **XP-3000 series has extended battery life of up to 20 hours.**

High sensitivity explosive gas detector
XP-3160

Combustible gas

Multi-gas detector
XP-3118

Combustible gas

O₂ Oxygen concentration

High concentration gas detector
XP-3140

Combustible gas

Others

Oxygen indicator
XP-3180

O₂ Oxygen concentration

Combustible gas detector
XP-3110

Combustible gas

Features

● **New digital display with a simulated analog scale**
Continuous digital numeric readout and simulated analog scale are displayed simultaneously.
Displays gas concentration and the level at a glance.

● **Lightweight 450g (16 oz.) and compact**
In addition to its "easy-to-hold" designs, the weight is 35% lighter than previous version.

● **Built-in correction factors for up to 5 flammable gases** (Factory option)
Up to 5 of types flammable gas concentrations can be read directly. (Excluding XP-3180)

● **Data-logging function**
Standard 10 hours at 5 seconds intervals (User-selectable), downloadable to PC with data download software (option).

● **Auto-ranging function**
L-Range and H-Range automatically change according to the gas concentration.

● **Self-diagnostics functions**
Detects low sample flow, sensor disconnection, low battery, and circuit integrity.

● **Built-in sample draw pump**
Standard 1-meter sampling hose with probe.
Optional sampling hoses up to 30 meters are available.

● **Upto 20 hours of battery life**
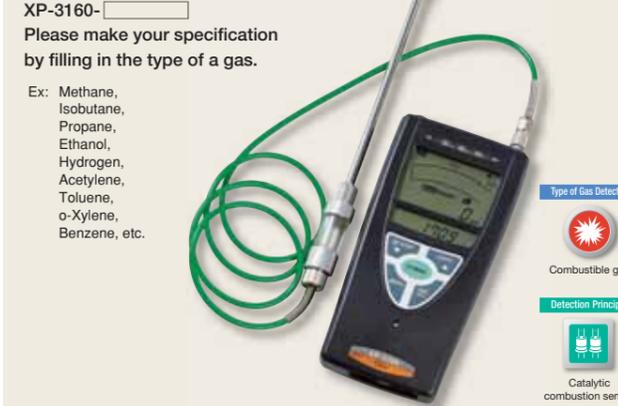
● **Explosion-proof structure**

Combustible gas detector XP-3110
For measurement of combustible gas concentration of 0-10/0-100% LEL.

XP-3110-_____
Please make your specification by filling in the type of a gas.

Ex: Methane, Isobutane, Propane, Ethanol, Hydrogen, Acetylene, etc.

Gas sampling hose
Probe
Filter/moisture trap
Buzzer silence
Alarm lamp
Main display screen
Sub display screen
Backlight switch
Power on/off switch
Zero adjustment switch
Menu switch
USB connecter to PC

Combustible gas — Catalytic combustion sensor
Type of Gas Detected / Detection Principle

High sensitivity explosive gas detector XP-3160
Super-Sensitive and best suited for detecting gases in ppm range.

XP-3160-_____
Please make your specification by filling in the type of a gas.

Ex: Methane, Isobutane, Propane, Ethanol, Hydrogen, Acetylene, Toluene, o-Xylene, Benzene, etc.

Type of Gas Detected — Combustible gas
Detection Principle — Catalytic combustion sensor

High concentration gas detector XP-3140
For measurement of high Concentration gases up to 100 vol%

XP-3140-_____
Please make your specification by filling in the type of a gas.

Ex: Methane, Hydrogen, Helium, Argon, Butane, Carbon dioxide, etc.

Type of Gas Detected — Combustible gas / Others
Detection Principle — Thermal conductivity sensor

Oxygen indicator XP-3180
The Oxygen of 0–25 vol% is measured.

Type of Gas Detected — Oxygen concentration
Detection Principle — Galvanic cell sensor

Multi-Gas detector XP-3118
Simultaneous displays combustible gas and Oxygen concentration.

XP-3118-_____-Oxygen
Please make your specification by filling in the type of a gas.

Ex: Methane, Isobutane, Propane, Ethanol, Hydrogen, Acetylene, etc.

Type of Gas Detected — Combustible gas / Oxygen concentration
Detection Principle — Catalytic combustion sensor / Galvanic cell sensor
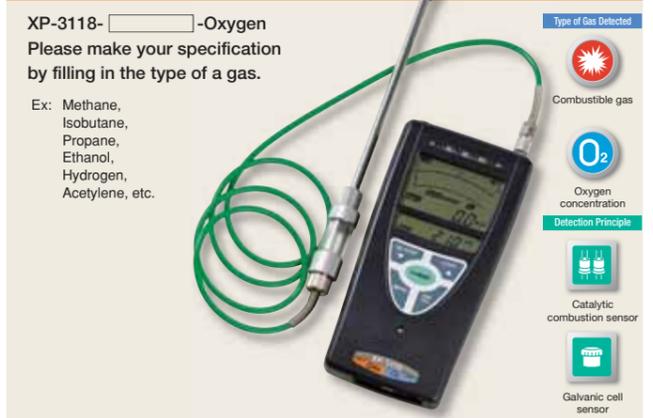
Standard Accessories

Soft case has been treated to prevent static build up.

Specifications

Model	XP-3110	XP-3140	XP-3160	XP-3180	XP-3118	
Gas Detected	Combustible gases and vapors (specify gas to be detected)	Methane, Propane, Argon, Carbon dioxide, etc. (specify gas to be detected)	Combustible gases and vapors (specify gas to be detected)	Oxygen	Combustible gases and vapors (specify gas to be detected)	Oxygen
Detection Principle	Catalytic combustion	Thermal conductivity	Catalytic combustion	Galvanic cell	Catalytic combustion	Galvanic cell
Sampling Method	Extractive	Extractive	Extractive	Extractive	Extractive	
Detection Range	0-100%LEL	0-100vol%	0-5,000ppm or 0-10,000ppm	0-25.0vol%	0-100%LEL	0-25.0vol%
Indication Accuracy (Under identical conditions)	±5% of full scale	H range: ±5% L range: ±10%	H range: ±5% L range: ±10%	±0.3vol% (Compliant with JIS T 8201)	±5% of full scale	±0.3vol% (Compliant with JIS T 8201)
Alarm Set Value	20%LEL	50vol%	250 or 500ppm	18.0vol%	20%LEL	18.0vol%
Display	LCD digital (with backlight) Digital display: 0-100%LEL Digital bar display: Auto range changeover 0-10%LEL (L range) 0-100%LEL (H range)	LCD digital (with backlight) Digital display: 0-100vol% Digital bar display: Auto range changeover 0-10vol% or 0-30vol% (L range) 0-100vol% (H range)	LCD digital (with backlight) Digital display: 0-5,000ppm or 0-10,000ppm Digital bar display: Auto range changeover 0-500ppm or 0-1,000ppm (L range) 0-5,000ppm or 0-10,000ppm (H range)	LCD digital (with backlight) Digital display Digital bar display	LCD digital (with backlight) Digital display Digital bar display	
Alarm Indication	Gas alarm: Intermittent buzzer, Red lamp flashing Trouble alarm: Buzzer, Red lamp flashing, LCD display			Gas alarm: Intermittent buzzer, Red lamp flashing Trouble alarm: Buzzer, Red lamp flashing, LCD display		
Explosion-Proof Structure	Exibd Ⅱ CT3			Exibd Ⅱ BT3	Exibd Ⅱ CT3	
Operation Temperature	0 to 40℃			−10 to 40℃	0 to 40℃	
Power Source	4×AA alkaline dry cells			4×AA alkaline dry cells		
Battery Life *1	Up to 20 hours	Up to 30 hours	Up to 20 hours	Up to 100 hours	Up to 20 hours	
Dimensions	W82×H162×D36mm			W82×H162×D36mm		
Weight	Approx. 450g (16oz.) (excluding battery)			Approx. 450g (16oz.) (excluding battery)		
Standard Accessories	Soft case, 4×AA alkaline dry cells, Gas sampling hose (1m), Probe with filter/moisture trap			Soft case, 4×AA alkaline dry cells, Gas sampling hose (1m), Probe with filter/moisture trap		
Optional Accessories	2-30m gas sampling hose, Gas dilution probe, Data download software (CD-ROM software and USB cable)			2-30m gas sampling hose, Gas dilution probe, Data download software (CD-ROM software and USB cable)		

*1 Battery life may vary with ambient conditions, conditions of use, storage period, battery manufactures, etc.

◆Partial list of Cosmos Portable Gas Detectors available

Personal gas monitor XX-2200 series

XO-2200(Oxygen)/XS-2200(Hydrogen Sulfide)

Features
- Can be used continuously for up to 5,000 hours.
- Thin, lightweight design.
- Three types of user-friendly alarm systems.
- Equipped with a peak value memory function.

Oxygen/Combustible/Hydrogen Sulfide/Carbon Monoxide

XP-302M

Features
- Datalogger (standard)
- Compact and Lightweight
- Large, bright display with auto-backlight
- 4 gas display

Digital Oxygen indicators

XO-326ALA/ALB

XO-326ALA   XO-326ALB

Features
- Galvanic sensor cell provides excellent stability.
- Long battery life.

Combustible gas detector / Extractive type

XP-702ⅡZ

Features
- Far more sensitive than leak detection liquid.
- Suitable for detecting small gas leaks.
- Detect combustible gas and CFC's using a single gas detector.
- Extended battery life reduces running costs.

For more information about our other products, please visit http://**www.new-cosmos.co.jp/en/index.html**

NEW COSMOS ELECTRIC CO., LTD.

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

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