Oxygen/Combustible gas/Hydrogen Sulfide/Carbon Monoxide detector digital

XP-302M

Type of Gas Detected			Detection Principle		
Combustible gas	Oxygen concentration	Toxic gas	Catalytic combustion sensor	Galvanic cell sensor	Electrochemical cell sensor

Features

● **Compact and Lightweight.**
● **Large, blight display with auto-backlight.**
● **4 gas simultaneous gas display.**

Specifications

Model		XP-302M			
Gases Detected		Combustible Gas (Methane or LPG)	Oxygen	Hydrogen Sulfide	Carbon Monoxide
Detection Principle		Catalytic combustion	Galvanic cell	Electrochemical cell	Electrochemical cell
Gas Sampling Method		Extractive			
Measuring Range (Service range)		0-100%LEL	0-25.0vol% (25.1-50.0vol%)	0-30.0ppm (30.1-150ppm)	0-150ppm (151-300ppm)
Indication Accuracy (Repeatability)*1		< ±5%LEL	< 0.5vol%	< ±1.5ppm	< ±10ppm to 100ppm
					< ±15ppm to 150ppm
Alarm Set Value	1st stage	10%LEL	19.5vol%	10.0ppm	50ppm
	2nd stage	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)			
Power Source		4 × AA alkaline dry cells			
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 Exibd ⅡBT3			
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. W152 × H152 × D42 mm			
Weight		Approx. 870g			
Standard Accessories	XP-302M-□-1◆	1m sampling hose (Probe with filter/moisture trap, Spare filters) Soft case			
	XP-302M-□-2◆	8m sampling hose (with float), Soft case and carrying case			
	XP-302M-□-3◆	Aluminum case*4, 8m sampling hose (with float), An external alarm (with 8m cable) and AC adaptor			
	XP-302M-□-4◆	Aluminum case*4, 8m sampling hose with hose reel (with float), An external alarm with a cable reel (with 8m cable) and AC adaptor			
Optional Accessories*5		・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 Non explosion-proof type *5 Please contact our dealers / distributors for available accessories

◆ Ordering information

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 or LPG

COSMOS Personal Gas Monitor XX-2100 Series Hydrogen Sulfide/Oxygen detector

XOS-2200

Type of Gas Detected	Detection Principle
Toxic gas	Electrochemical cell sensor

Features

● **Can be used continuously for 5000 hours.**
● **Available with loud buzzer, alarm lamp from 4 dimensions, peak hold function.**
● **Available with TWA (Time Weighted Average) gas concentration display, memory of peak value, and peak hold function.**
● **Thin, lightweight design.**
● **Available with gas calibration kit (Optional).**

Specifications

Model	XOS-2200	
Gas Detected	Oxygen (O2)	Hydrogen Sulfide (H2S)
Detection Principle	Galvanic cell	Electrochemical cell
Sampling Method	Diffusion	
Detection Range (Service Range)	0-25vol% (25-50vol%)	0-30.0ppm (30.1-100ppm)
Resolution	0.1vol%	0-35.0ppm: 0.1ppm 35-100ppm: 5ppm
Indication Accuracy *1	Within ±0.5vol% ±1 digit	Within ±1.5ppm ±1 digit
Alarm Set Value 1st stage	19.5vol%	10.0ppm
2nd stage	18.0vol%	15.0ppm
Response Time *2	20s or less	30s or less
Display Mode	LDC (Manual backlight)	
Alarm Mode	Buzzer sounds, flashing red light, vibrator	
Functions	Remaining battery level, peak hold, memory of peak value, alarm functions except gas alarm (sensor malfunction, remaining battery level, air-adjustment malfunction), gas concentration indication.	
Operations Temperature	−10℃ to 40℃, 30-85% RH (non-condensing)	
Operation Air Pressure	Air pressure ±10%	
Power Source	1 × AAA alkaline dry cell (LR03)	
Battery Life *3	Up to 5000 hours (at 20℃ without alarm)	
Dimensions	W65×D22×H64mm (excluding protrusions)	
Weight	Approx. 75g (including battery)	
Standard Accessories	1 × AAA alkaline dry cell, 1 × safety pin adaptor (with fixing screw)	

*1 Under idential measuring conditions. *2 Assuming 90% response and operating at 20 ±2℃.
*3 Battery life may vary with ambient conditions, conditions of use, storage period, battery manufactures, etc.