



COSMOS

Personal Gas Monitor XX-2200 Series

- Thin, lightweight design
- Long operating life
- Various alarm functions
- Equipped with a peak value memory function



XOC-2200

Oxygen & Carbon Monoxide



Oxygen



Toxic gas



Galvanic cell sensor



Electrochemical cell sensor



XOS-2200

Oxygen & Hydrogen Sulfide



Oxygen



Toxic gas



Galvanic cell sensor



Electrochemical cell sensor



XC-2200

Carbon Monoxide



Toxic gas



Electrochemical cell sensor



XS-2200

Hydrogen Sulfide



Toxic gas



Electrochemical cell sensor



XO-2200

Oxygen



Oxygen



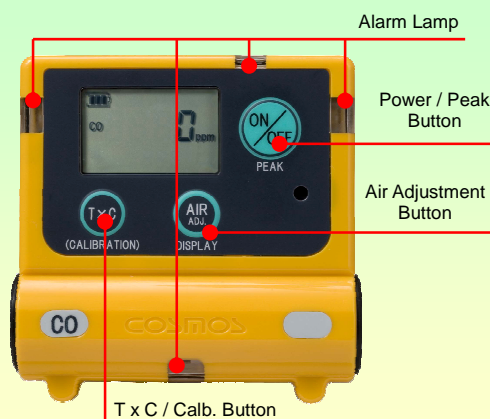
Galvanic cell sensor



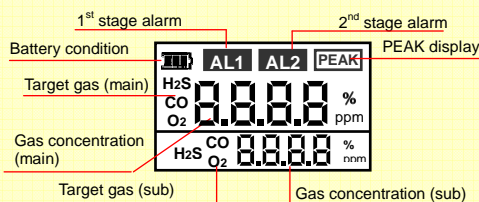
Can be used continuously for 5000 hours.

The monitor can be used for 5000 hours with one AAA alkaline battery. Also, the battery can be changed by the user.

Oxygen & Carbon Monoxide Monitor XOC-2200

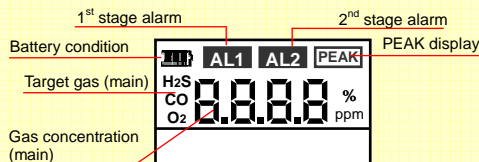


XOC-2200/XOS-2200 LCD Display Details



The main-display and sub-display can be switched with one button.

XC-2200/XS-2200/XO-2200 LCD Display Details



Standard Accessories

- Suspender Clip



Optional Accessories

- Soft Case
- Helmet Clip



Specifications

Model	XO-2200	XC-2200	XS-2200	XOC-2200	XOS-2200
Gas Detected	Oxygen	Carbon Monoxide	Hydrogen Sulfide	Oxygen	Carbon Monoxide
Detected Principle	Galvanic cell	Electrochemical cell	Electrochemical cell	Galvanic cell	Electrochemical cell
Sampling Method	Diffusion	Diffusion	Diffusion	Diffusion	Diffusion
Detection Range (Service Range)	0-250vol% (25-50vol%)	0-300ppm (300-2,000ppm)	0-30.0ppm (30.1-100ppm)	0-25vol% (25-50vol%)	0-300ppm (350-2,000ppm)
Indication Accuracy (Under identical conditions)	Within $\pm 0.5\text{vol}\%$	Within $\pm 30\text{ppm}$	Within $\pm 1.5\text{ppm}$	Within $\pm 0.5\text{vol}\%$	Within $\pm 30\text{ppm}$
Alarm Set Value	1 st stage: 19.5vol% 2 nd stage: 18.0vol%	50ppm 150ppm	10.0ppm 15.0ppm	19.5vol% 18.0vol%	50ppm 150ppm
Response Time (90% response at 20 \pm 2°C)	20s or less	30s or less	30s or less	20s or less	30s or less
Alarm Indication	Buzzer sounds, flashing red light, vibrator			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, adjustment malfunction)			Remaining battery level, peak hold, memory of peak value, alarm functions except gas alarm (sensor malfunction, remaining battery level, adjustment malfunction)	
Explosion-proof Structure	Exibd II BT3	Exibd II BT3	Exibd II BT3	Exibd II BT3	Exibd II BT3
Operation Temperature and Humidity	-10 to 40°C, 30-90%RH (non condensing)			-10 to 40°C, 30-90%RH (non condensing)	
Power Source	1 x AAA Alkaline dry cell (LR03)			1 x AAA Alkaline dry cell (LR03)	
Battery Life *1	5,000+ hours (at 20°C without alarm)			5,000+ hours (at 20°C without alarm)	
Dimensions	W65 x D22 x H64mm (excluding protrusions)			W65 x D22 x H64mm (excluding protrusions)	
Weight	Approx. 75g (including battery)			Approx. 75g (including battery)	
Standard Accessories	1 x AAA Alkaline dry cell, safety pin adaptor (with fixing screw)			1 x AAA Alkaline dry cell, safety pin adaptor (with fixing screw)	
Optional Accessories	Soft case, Belt clip, Helmet clip			Soft case, Belt clip, Helmet clip	

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

Oxygen concentration	Effect on human body
21%	Normal air density
18%	Safety limit
16%	Increase in respiration and pulse rate, headache, feeling sick, and nausea
12%	Dizziness, nausea, loss of muscle strength, and falling
10%	Pallor, unconsciousness, and vomiting (potential choking from vomit)
8%	Coma, Will cause death in 8 min.
6%	Asphyxia convulsions, death

CO concentration	Effect on human body
0.01%	No conspicuous behavior after breathing for several hours
0.02%	Slight headache in 1.5 hours
0.04% - 0.05%	Headache, nausea, and ear ringing in 1 hour
0.06% - 0.10%	Loss of consciousness in 1.5 hours
0.15% - 0.20%	Headache, severe nausea, and loss of consciousness in 0.5-1 hour
over 0.40%	Life threatening even after short exposure

Hydrogen Sulfide (ppm)	Effect on human body
0.03	Lower perception limit of smell
5	An unpleasant odor is generated
50 - 100	Irritating to the respiratory tract, conjunctivitis
100 - 200	Paralysis of olfactory perception
200 - 300	Sub-acute poisoning in 1 hour
600	Fetal poisoning in 1 hour
1,000 - 2,000	Instant death



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The information contained is subject to change.