Options

※ Charging cable (USB Type-A) will be released soon.

[AD-101]
Dedicated AC adapter



[ST-23]
Buckle for fall prevention equipment (full harness type)



[ST-26]
Mounting clips



[C-41]
Leather case (heat-resistant specification)

[C-42]
Leather case (standard specification)

[NXA-xL (CD-ROM)]
Collection software



Compatible with O2 and CO only



Compatible with all gas types

[ST-11]
Arm belt

Model Lineup

Please select according to the gas you wish to detect.

Code	Oxygen	Carbon monoxide	Hydrogen sulfide	Sulfur dioxide	Methane	Carbon dioxide
D1	●	●				
D2	●		●			
S1	●					
S2		●				
S3			●			
S4				●※		
S5					●※	
S6						●※

※ Scheduled for release soon.

The dedicated AC adapter [AD-101] is required to charge the device. Please request it at the time of purchase.

Main unit specifications

Model		NXA-D
Sampling Method	Gas sampling method	Diffusion
	Gas alarm method	Voice, buzzer, alarm light (red) flashing and LCD display, vibration operation
Error notification method		Voice, buzzer, alarm light (orange) flashing and LCD display, vibration operation
Power Source		Dedicated lithium-ion rechargeable battery (built into the product)
Continuous operating time*1		When equipped with an oxygen sensor: approx. 2,000 hours When not equipped with an oxygen sensor: approx. 4,000 hours
Operating temperature/humidity		-20 to 50°C 15 to 85% RH or less (continuous) *There should be no condensation or sudden changes in temperature or humidity.
Charging temperature range		0 to 35°C
Operating pressure range		Atmospheric pressure (800 to 1100 hPa) *There should be no sudden pressure fluctuations.
Explosion-proof class		ATEX: Ex II 1G Ex ia IIC T4 Ga; IECEx: Ex ia IIC T4 Ga; JPEx: Ex ia IIC T4 Ga; *Used with Controlled Potential Electrolysis sensor
IP Rating		IP66, IP68 equivalent (no immersion in water for 90 minutes at 2 m)*2
Sound pressure*3		95 dB or more / 30 cm
Wireless communication		Bluetooth Low Energy 5.0*4
Functions		Peak hold function, stop buzzer function, alarm manual resetting function, LCD backlight, voice announcements, volume settings (buzzer, voice), Bluetooth communication function, infrared communication function, LED lighting function, heat index (WBGT) estimated value display function, time, alarm test, function test, alarm history, monitoring function (Bluetooth), self-diagnosis (sensor abnormality, product abnormality), data logging function, battery level notification, sensor calibration notification, sensor replacement notification
Dimensions		Approx. W78 x H85 x D46 mm (alligator clip not included)
Weight		Approx. 155 g (alligator clip not included)

NOTE THAT THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

*1 At 25°C, no alarm, with backlight, data logging, and Bluetooth OFF. This will vary depending on environmental conditions, usage conditions, storage period, etc.
*2 In its brand-new condition, the product features a dustproof and waterproof structure that meets New Cosmos's in-house testing standards in compliance with JIS C 60529:2026 protection grade IP66/68. However, this protection grade IP66/68 does not guarantee gas detection performance. IP66/68 refers to a structure that, in a dust test conducted under a reduced pressure of up to 2 kPa, prevents any accumulation of dust inside the tested product (IP6X), and in a water test, withstands powerful jet water spray from nozzles in all directions (IPX6), and is gently submerged into a tank of still tap water at room temperature with the lowest end of the product at 2 m below the water surface for 90 minutes, without any water ingress that could cause harmful effects (IPX8).
*3 This is the alarm volume when the maximum audio volume is set.
*4 The Bluetooth module used in the NXA-D has obtained the technical conformity certification (Giteki) required for use under Japanese Radio Law.

Sensor Module Specifications

Model		CDS-300		
Target gas		Oxygen (O2)	Carbon monoxide (CO)	Hydrogen sulfide (H2S)
Sensor Type		Controlled Potential Electrolysis		
Detection range (Service range*1)		0 to 25.0 vol% (25.1 to 50.0 vol%)	0 to 300 ppm (301 to 2000 ppm)	0 to 30.0 ppm (30.1 to 150 ppm)
Indication accuracy*2 (Excluding the service range)		±0.5 vol%	0 to 150 ppm: ±15 ppm 151 to 300 ppm: ±30 ppm	±1.5 ppm
Display resolution (Within the service range)		0.1 vol% (0.1 vol%)	1 ppm (10 ppm)	0.1 ppm (1.0 ppm)
Alarm set value	AL1	19.5 vol%*3	50 ppm	10.0 ppm
	AL2	18.0 vol%*3	150 ppm	15.0 ppm
	AL3	25.0 vol%*3	170 ppm	20.0 ppm
	TWA	—	25 ppm	10.0 ppm
	STEL	—	300 ppm	15.0 ppm
	TxC	—	150 ppm·h	—
Response time (T90)*4		Within 20 seconds	Within 30 seconds	Within 30 seconds
Recommended replacement cycle		3 years		

*1 A range outside the detection range that indicates reference values for guidance purposes only.
*2 Under the same measurement conditions.
*3 AL1 and AL2 are lower-limit alarms, AL3 is upper-limit alarm.
*4 Time for 90% response. (Ambient temperature: 20 ± 2°C)

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Be sure, be safe.

COSMOS

EXPLOSION-PROOF
PORTABLE GAS DETECTOR

NXA-D

Stay connected, stay informed, protect your team.

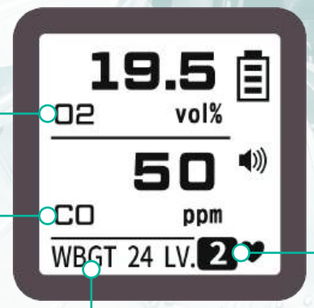
Explosion-proof certified product

NEW



For preventing heatstroke!

Estimated Heat Index (WBGT value) / with warning level indicator



Target gas
(*Coming soon)

CO: Carbon monoxide
H2S: Hydrogen sulfide
O2: Oxygen
SO2: Sulfur dioxide*
CH4: Methane (natural gas)*
CO2: Carbon dioxide*

LV. 1 ～ 5
Warning level indicator (5 levels)

WBGT 15 ～ 44
Estimated Wet Bulb Globe Temperature (WBGT)

Compliance / Certification:

CE (EMC, RoHS, RED)
ATEX | IECEx | JPEx

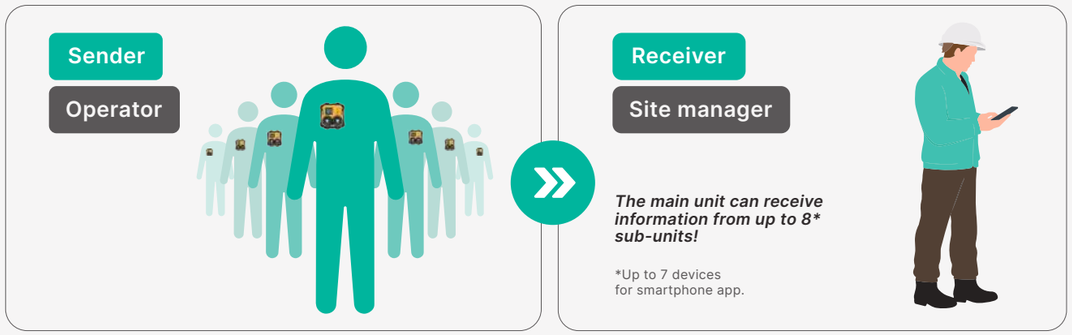
For every team and organization engaged in harsh field work.

FEATURE 1

Monitoring Detector

Even in noisy environments, warnings and concentration information are sent from individual team members to the manager, providing peace of mind.





FEATURE 2

Superior Impact Resistance

Elastomer cover provides enhance durability and increased protection.



Strategic reinforcement for corners and high-stress points.



Names and external dimensions

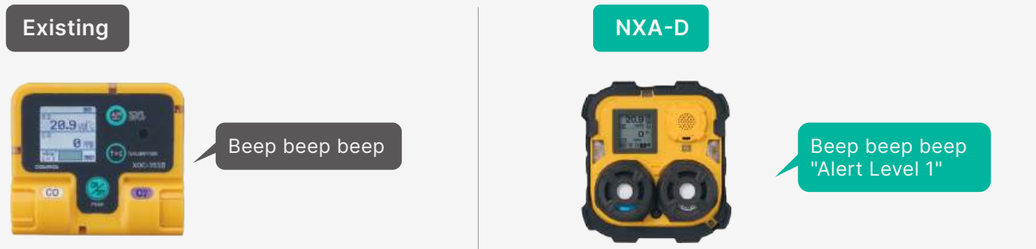
1	Alarm LED	5	LED light
2	LCD	6	Operation button
3	Gas sensor	7	Power button
4	Speaker	8	Alligator clip

EXPLOSION-PROOF PORTABLE GAS DETECTOR | NXA-D

FEATURE 3

Clear Verbal Guidance

Voice alerts in explosion-proof areas. Quickly verify alarm details for rapid response. Voice and display support available in English, Chinese and Japanese.



FEATURE 4

No calibration is required when replacing the gas sensor.

Pre-calibrated sensor modules remove the need for gas calibration during installation, allowing for easy sensor replacement by the user.



