

FIXED GAS DETECTOR (DIFFUSION TYPE)

KD-12 SERIES

Explosion proof Fixed gas detector with display

for combustible gases, toxic gases, oxygen etc.



Explosion proof KD-12 Series (IP65) is smart and reliable fixed gas detectors for continuous monitoring of a wide range of combustible gases, toxic gases, oxygen and more. You can choose from various models such as HART communication model and SIL2 certified model according to the applications.

Feature

- Rugged, compact and lightweight Size 158×H116×D68mm, Weight Approx. 1.2kg
- LED local display
 Large LED local display shows the gas concentration
 and alarm indication.
- Explosion proof ATEX, IECEx and TIIS approved.
- Water and dust proof IP65 rating
- One man calibration
 All setup and maintenance can be performed easily
 on site by one person with a magnetic stick (pic.1).
- Easy sensor replacement The simple plug-in sensor module makes it easier (pic2).





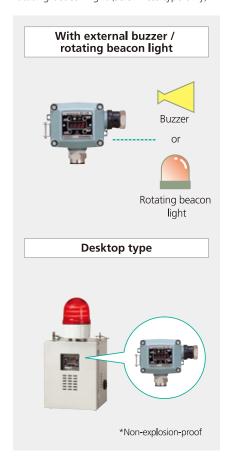
- Japan made products
- As well as the sensor which is the heart of gas alarm, all the products are developed and manufactured in Japan with high quality and reliability.
- Infrared sensor for long-term stability and less calibration needs (KD-12R)
- HART communication model is available (KD-12AH/KD-12BH)
- SIL2 certified model is available (KD-12B-SIL)
- Extractive type (PD-12 series) is available*

 * For further information, please contact us.

Configurations

With buzzer or rotating beacon light

It is used as an integral type gas detection system, connecting to external buzzer or rotating beacon light (screw-less type only).



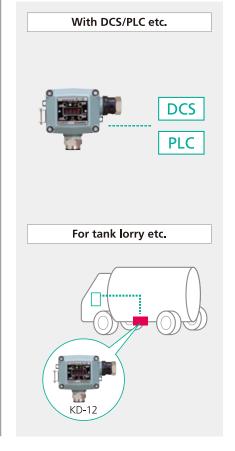
With indicator unit

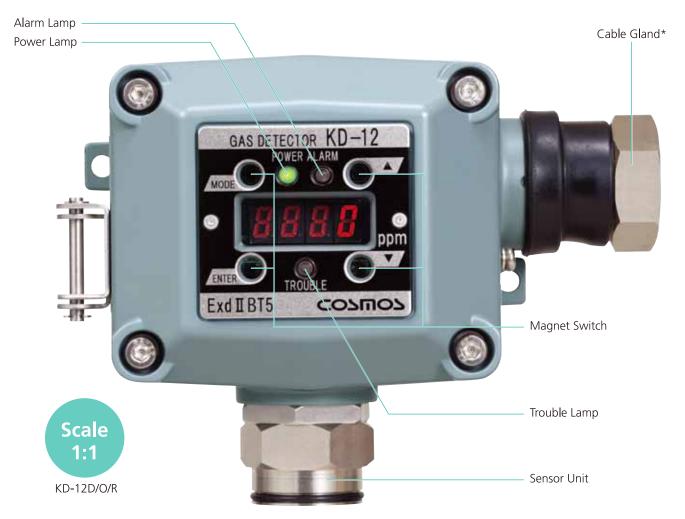
It is connected with our indicator units and you can monitor gas concentrations and alarm status from a distance.



With DCS/PLC/SCADA

It is directly connected to a central control system such as DCS/PLC/SCADA. It is also mounted in vehicles like tank lorry etc.

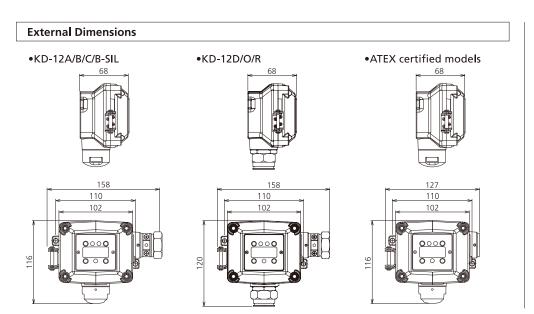


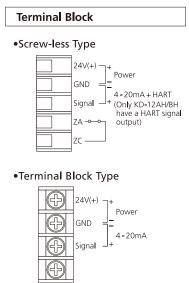


^{*} Cable gland is not included in ATEX certified models and sold separately.

Applications

- Pipelines
- Tank farms
- Exploration and drilling platforms
- Production platforms
- Oil and gas terminals
- Refineries and chemical plants
- Power Stations
- Waste water facilities
- Utilities





Specifications

Model			KD-12C	KD-12R	KD-12D		KD-12O	
Detection Principle	Hot wire semiconductor Catalytic combustion		Thermal conductivity	Non-dispersive infrared	Electrochemical cell		Galvanic cell	
Gas Detected			Hydrogen,Helium,	Methane,	Carbon	Hydrogen	Oxygen	
	Carbon dioxide Carbon dixide				monoxide	su l fide		
Sampling Method	Diffusion							
Detection Range	As per specifications				0-100ppm,		0-25.0vo l %	
					0-150ppm,or	0 - 50ppm*2		
					0-250ppm*2			
Alarm Set Value	As per specifications				FS100ppm:	10ppm	18.0vol%	
					25ppm			
					(recommendation) FS150/250ppm:			
					50ppm			
					(recommendation)			
Alarm Accuracy	Combustible gas: ±25%	±25% of alarm	±30% of al	arm	±1.0vol% of alarm			
Alaini Accuracy	Toxic gas: ±30% of alarr	set value	set value	allii	set value			
Alarm Delay	Combustible gas: within	30s at 1.6 times of alarr	n set value	Within 30s at 1.6 times		at 1.6 times	Within 5s to reach 18vol%	
Alaim Delay	Toxic gas: within 60s at 1.6 times of alarm set value			of alarm set value	of alarm set value under condition of 10vol%			
Alarms	Toxic gas. within loss at 1.5 times of airm set value of airm set						under condition or rovorio	
7 ((011115	Trouble alarm: Yellow LED lamp flashes (sensor trouble, power voltage malfunction, etc.)							
Display	4-digit digital LED display							
Output	Gas concentration analog signal							
'	•4-20mADC (common to the negative side of power supply)							
	Gas alarm contact (one stage only)*4							
	•1a no-voltage contact output, Non-latching							
	•Rated load: 0.5A at 250VAC or 0.5A at 30VDC (resistance load)							
Operation	At 4 points of magnetic							
Explosion-proof	Ex d IIC T5 (TIIS) II 2 G	Ex db IIC T5 Gb (ATEX)	Ex db IIC T5 Gb (IECEx)					
Degree of Protection	IP65	12						
Applicable Cable	Cable out diameter: Ø10-13 mm							
Operating Temperature/	5-conductor cable*4: CVV-S 1.25mm², 3-conductor cable: CVV-S 2mm² or 1.25mm² Temperature: 10 to 15090				Tomporaturo	10 to 140°C	Temp: 0 to +40°C	
Humidity*5	Temperature: -10 to +50°C Humidity: 10% to 90% RH (0 to +50°C)							
Power Supply	Humidity: 10% to 90% RH (0 to +50°C)							
Power Consumption								
Dimensions	W158×H116×D68 mm (W158×H120×D68mm (excluding protrusion)*7						
Weight	Approx. 1.2kg			Approx. 1.3kg		-		
	14D 42D 6H			1/D 42411		1/D 42D11		
Model Detection Principle				KD-12AH	r Catalytic combustion			
Gas Detected	Combustible gas, Toxic gas*1			Hot wire semiconductor Catalytic combustion Combustible gas				
Sampling Method	Diffusion			combastible gas				
Detection Range	As per specifications							
Alarm Set Value	As per specifications							
Alarm Accuracy	Combustible gas: ±25% of alarm set value ±25% of alarm set value					ue		
		of alarm set value		±25% of alarm set value	j			
Alarm Delay	Toxic gas: ±30% of alarr	n set va l ue						
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	Toxic gas: ±30% of alarr Combustible gas: within Toxic gas: within 60s at	n set value 30s at 1.6 times of alarr 1.6 times of alarm set val				/a l ue		
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Alarms Display Output Display Operation Explosion-proof Degree of Protection Functional Safety Applicable Cabel Operating Temperature/ Humidity*5	Toxic gas: ±30% of alarr Combustible gas: within Toxic gas: within 60s at Gas alarm: Red LED lam Trouble alarm: Yellow LE 4-digit digital LED displa Gas concentration analo 4-20mADC (common t Gas alarm contact (one s 1a no-voltage contact c Rated load: 0.5A at 25' Rated load: 0.5A at 25' Fillo digital LED displa At 4 points of magnetic Ex d IIC T5 (TIIS) II 2 G IP65 *SIL2 capable +Hardware Fault Toleran -Applicable standards: IE Cable out diameter: ø10 5-conductor cable *4: CN -10 to +50°C 10 to 90%RH (0 to +50°C	m set value 30s at 1.6 times of alarm 1.6 times of alarm set val o flashes D lamp flashes (sensor tr y g signal o the negative side of po stage only)*4 output, Non-latching OVAC or 0.5A at 30VDC y switches Ex db IIC T5 Gb (ATEX) ce: zero (0) EC 61508-2, EN 61508-2 1-13mm VV-S 1.25mm², 3-conduc	ue ouble, power voltagemalf wer supply) (resistance load) Ex db IIC T5 Gb (IECEX) and JIS C 0508-2.	Within 30s at 1.6 times unction, etc.) Gas concentration analo 4-20mADC(common n Wired HART signal (sup Gas alarm contact (one 1 a non-voltage, Latchir +HART Communication	of alarm set v g signal and egarive with erimposed o stage only)*4 g (standard) Protocol Rev.	HART signal power supply ver 4-20mA : or non-latch 7.5		
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^{*1} Only combustible gas for ATEX certified models *2 Specify when purchasing *3 Under the condition of 20 ±2C° *4 Screwless type only *5 No radical temperature or humidity changes and no condensing *6 W127xH116xD68mm for ATEX certified models *7 W127xH120xD68mm for ATEX certified models



NEW COSMOS ELECTRIC CO., LTD.

NEW COSMOS ELECTRIC CO., LTD. [Overseas Business Division]

Approx. 1.2kg

2-6-2 Hamamatsu-cho, Minato-ku, Tokyo 105-0013 JAPAN TEL. +81-3-5403 2715 Email. e-info@new-cosmos.co.jp www.newcosmos-global.com

NEW COSMOS-BIE B.V.

Weight

1704 SG Heerhugowaard The Netherlands

TEL. +31-72-576 5630 Email. sales@newcosmos-europe.com www.newcosmos-europe.com

NEW COSMOS ELECTRIC (SHANGHAI) CO., LTD.

4th Plant No.385, Dongxing Road, Songjiang Industrial Zone, Shanghai, China 201613 TEL. +86-21-6774 3138 Email. info@new-cosmos.com.cn www.new-cosmos.com.cn

NEW COSMOS ELECTRIC KOREA CO., LTD.

802, Alpha Tower, 180, Pangyoyeok-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13524 Korea TEL. +82-31-703-3102 Email. info@new-cosmos.co.kr

NEW COSMOS ELECTRIC CO., LTD. [Taiwan Office]

8F., No.419, Sec.2, Gongdao 5th Road, Hsinchu city, Taiwan 30070 TEL. +886-3-574 4593 Email. cosmost1@ms75.hinet.net

NEW COSMOS ELECTRIC CO., LTD. [Singapore Office]

80 Robinson Road #10-01A, Singapore 068898 TEL. +65-6420-6387 Email. e-info@new-cosmos.co.jp



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.