

Gas Detector

Model: KD-12



LED Concentration Display Gas Detector

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Feature

• Simple, and reliable gas detector

Bright LED digital display Maintenance mode function Programmable alarm relay Proven Cosmos gas sensor technology

Cost effective and easy installation

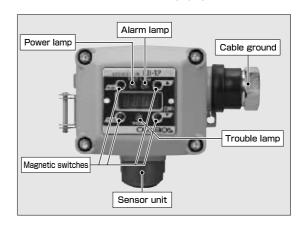
Non-intrusive, one-man calibration with relay deactivation feature Screw-less terminal blocks 4-20mA linear output and on-board relay (standard)

Rugged and compact design

Protection rating IP65 (standard) Size as W158 x H116 x D68mm, weight 1.2kg

Environmentally-friendly product

Lead-free PC board, electronics parts and solders



Specifications

Model	KD-12
Corresponding Sensor Type	Hot wire semiconductor type (KD-12A) or Catalytic combustion type (KD-12B)
Sampling Method	Diffusion
Alarm Accuracy	Combustible gas: ±25% of Alarm Set Value
	Toxic gas: ±30% of Alarm Set Value
Alarm Delay	● Combustible gas: 30s or less at 160% concentration of an Alarm Set Value
	● Toxic gas: 60s or less at 160% concentration of an Alarm Set Value
Warning Display	● Gas alarm (1st stage only)
	Red lamp flashes
	• Trouble alarm (sensor breaking, sensor zero drop, power supply voltage error, etc.)
	Yellow lamp flashes
External Output	Gas concentration analog signal (direct linear reading of concentration)
	4 to 20 mA DC (common to the negative side of power supply)
	● 0.9 mA or less at Trouble alarm
	$ullet$ The load resistance of analog signal is to be less than 300 Ω including interconnection
	resistance Gas alarm contact (1st stage only)
	• la non-voltage relay contact / Non-latching
	● Rated load: 0.5 A at 250V AC or 0.5 A at 30V DC (resistance load)
Gas Concentration Display	Four-digit digital LED display (direct linear reading of concentration)
Operation	At 4 points of magnetic switches
Cable Connection	Screw-less terminal blocks
Explosion-proof	Ex d IIC T5 (Japan TIIS), Ex d IIC T6 (China Explosion-proof Inspection)
Degree of protection	IP65 (internal instrument)
CE Marked	Complied with CE Directive 89/336/EEC, 92/31/EEC, 93/68/EEC
Applicable Cable	Cable outer diameter (10 to 13 mm dia.)
	• 5-conductor cable (power supply, analog signal and gas alarm contact):
	CVV-S 1.25 mm2
	● 3-conductor cable (power supply and analog signal):
	CVV-S 2mm2
Temperature and Humidity range	Temperature: -10 to 50 degrees C
	Humidity: 10% to 90% (0 to 50 degrees C)
	No radical temperature or humidity changes and no condensation.
Power Supply	24V DC (18 to 30V DC)
Power Consumption	3 W or less
Dimensions	158(W) x 116 (H) x 68 (D) mm (excluding protrusions)
Weight	Approx. 1.2kg



Head Office: 2-5-4 Mitsuyanaka, Yodogawa-ku, Osaka 532-0036 JAPAN Tokyo Office: 2-6-2 Hamamatsu-cho, Minato-ku, Tokyo 105-0013 JAPAN URL: http://www.new-cosmos.co.jp/en/index.html