

Best Detectors, Best Service



GasDNA's philosophy is 'to maximize value by customer-friendly design'. In order to provide customers 'best detectors & best service', We are reflecting every customer's needs from various applications in our product design. It is the reason that we can manufacture the world best detectors as well as world best quality.



GasDNA Co., Ltd

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E-mail : sales@gasdna.com / Web : www.gasdna.com

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- 2013 – Developed Two color Pyrometer(SS-100, 2IGA-100),
– Participated in exhibition 'Sensor + Test 2013' in Nuremberg, Germany
-
- 2012 – Developed wireless indoor air quality monitor 'IAQ-700'
– Registered patent for Infrared thermometer in Korea
– Acquired CE-Mark for SD-50
– Participated in exhibition 'Industrial Automation Show' in Hannover, Germany and Shanghai, China
-
- 2011 – Selected as promising small and medium enterprises by Incheon city
-
- 2009 – Developed InGaAs Pyrometer
– Developed Silicon Pyrometer
-
- 2008 – Developed TCD Hydrogen Detector first in Korea
-
- 2007 – Selected as Venture company
– Acquired CE-Mark for DA-750
– Developed Thermopile Infrared thermometer first in Korea
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- 2006 – Developed NDIR Detector first in Korea
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- 2005 – Acquired ISO9001,ISO14000
– Registered utility model patent and design for smoke sensor
-
- 2004 – Established GasDNA Co., Ltd

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SMART Gas Detector

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Fixed Infrared Thermometer

*OEM Service is available, Please contact us for further information.

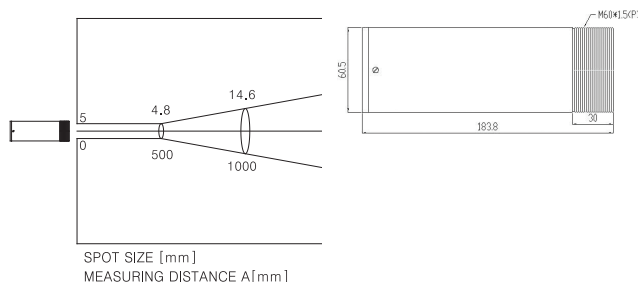
SS-100

2-Color Infrared thermometer



► Optical Field of View

► Dimension



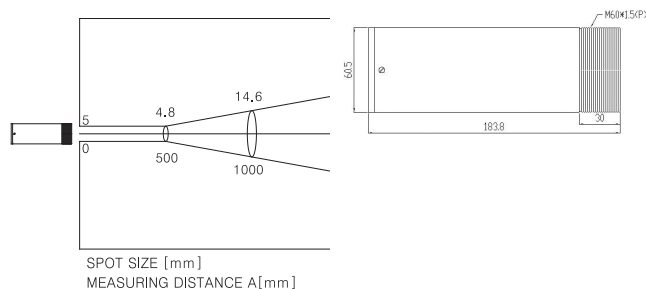
2IGA-100

2-Color Infrared thermometer



► Optical Field of View

► Dimension



► Product Specification

Segment	SS-100
Range	800℃~2400℃
Resolution	1℃
Emissivity	0.1~0.99
Response Time	Within 0.1 sec
Accuracy	2℃ or ±1℃
Detection sensor	2 Color-Si/Si
Field of View (D:S)	80:1
Wavelength Range	0.8~1.1μm
Input Power	12V~24V
External Material	SUS
Cable	3M

► Code Number SS-100-□-□-□

Model	Description
Code A	Temperature range
1	800℃~1800℃
2	800℃~2400℃
Z	Other
Code B	Output
M	DC 0~20mA
N	DC 4~20mA
V	Voltage output DC 1~5V
Z	Other
Code C	Cable length
1	3M
Z	Other

*Free software

► Product Specification

Segment	2IGA-100
Range	400℃~1200℃
Resolution	1℃
Emissivity	0.1~0.99
Response Time	Within 0.1 sec
Accuracy	2℃ or ±1℃
Detection sensor	2 Color-InGaAs/InGaAs
Field of View (D:S)	80:1
Wavelength Range	1.0~1.5μm
Input Power	12V~24V
External Material	SUS
Cable	3M

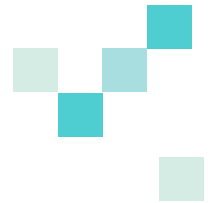
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Model	Description
Code A	Temperature range
1	300℃~700℃
2	400℃~1200℃
Z	Other
Code B	Output
M	DC 0~20mA
N	DC 4~20mA
V	Voltage output DC 1~5V
Z	Other
Code C	Cable length
1	3M
Z	Other

*Free software

Fixed Infrared Thermometer

*OEM Service is available, Please contact us for further information.

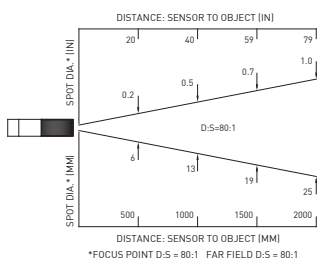


IR-80-H

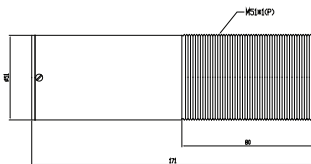
Non-contact infrared thermometer



► Optical Field of View



► Dimension

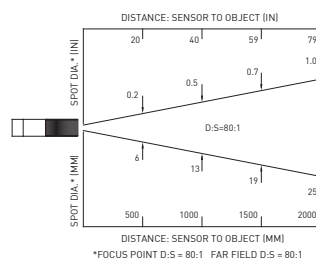


IR-80

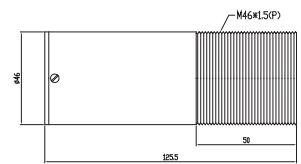
Non-contact infrared thermometer



► Optical Field of View



► Dimension



► Product Specification

Segment	IR-80-H
Range	500°C~1700°C
Resolution	0.1°C
Emissivity	0.1~0.99
Response Time	Within 0.1 sec.
Accuracy	2°C or ±1%
Field of View (D:S)	80:1
Wavelength Range	1~1.6μm
Input Power	12V~24V
Digital RS-485	4800, 9600
External Material	Aluminum
Cable Length	3M

► Code Number IR-80-H-□-□-□

Model	Description
Code A	Temperature range
1	500°C~1500°C
2	500°C~1700°C
Z	Other
Code B	output
M	DC 0~20mA
N	DC 4~20mA
V	Voltage output DC 1~5V
Z	Other
Code C	Cable length
1	3M
Z	Other

*Free software

► Product Specification

Segment	IR-80
Range	500°C~1700°C
Resolution	0.1°C
Emissivity	0.1~0.99
Response Time	Within 0.1 sec.
Accuracy	2°C or ±1%
Field of View (D:S)	80:1
Wavelength Range	1~1.6μm
Input Power	12V~24V
Digital RS-485	4800, 9600
External Material	Aluminum
Cable Length	3M

► Code Number IR-80-□-□-□

Model	Description
Code A	Temperature range
1	500°C~1500°C
2	500°C~1700°C
3	75°C~500°C
Z	Other
Code B	output
M	DC 0~20mA
N	DC 4~20mA
V	Voltage output DC 1~5V
Z	Other
Code C	Cable length
1	3M
Z	Other

*Free software

Fixed Infrared Thermometer

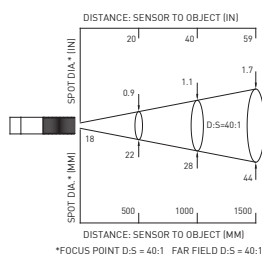
*OEM Service is available, Please contact us for further information.

IR-40

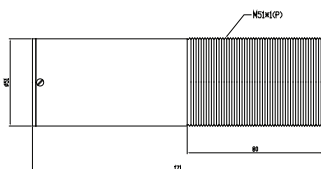
Non-contact infrared thermometer



► Optical Field of View



► Dimension

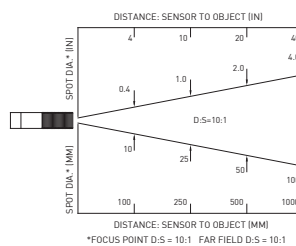


6-IRman

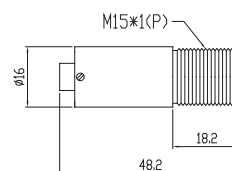
Non-contact infrared thermometer



► Optical Field of View



► Dimension



► Product Specification

Segment	IR-40
Range	0°C~1,000°C
Resolution	0.1°C
Emissivity	0.1~0.99
Response Time	Within 0.5 sec.
Accuracy	2°C or $\pm 1\%$
Field of View (D:S)	40:1
Wavelength Range	8~14 μ m
Input Power	12V~24V
Digital RS-485	4800, 9600
External Material	Aluminum
Cable Length	3M

► Code Number IR-40-□-□-□

Model	Description
Code A	Temperature range
1	0°C~1000°C
2	0°C~700°C
3	-20~1000°C
Z	Other
Code B	Output
M	DC 0~20mA
N	DC 4~20mA
V	Voltage output DC 1~5V
Z	Other
Code C	Cable length
1	3M
Z	Other

*Free software

► Product Specification

Segment	6-IRman
Range	-20°C~600°C
Resolution	0.1°C
Emissivity	0.1~0.99
Response Time	Within 0.5 sec.
Accuracy	2°C or $\pm 1\%$
Field of View (D:S)	10:1
Wavelength Range	8~14 μ m
Input Power	12V~24V
Digital RS-485	4800, 9600
Cable Length	3M

► Code Number 6-IRman-□-□-□

Model	Description
Code A	Temperature range
1	0°C~600°C
2	-20°C~400°C
3	0~100°C
Z	Other
Code B	Output
M	DC 0~20mA
N	DC 4~20mA
Z	Other
Code C	Cable length
1	3M
Z	Other

*Free software

Fixed Infrared Thermometer

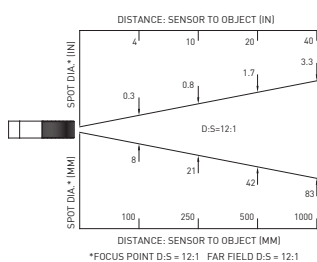
*OEM Service is available, Please contact us for further information.

IR-21

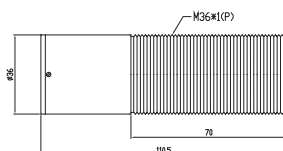
Non-contact infrared thermometer



► Optical Field of View

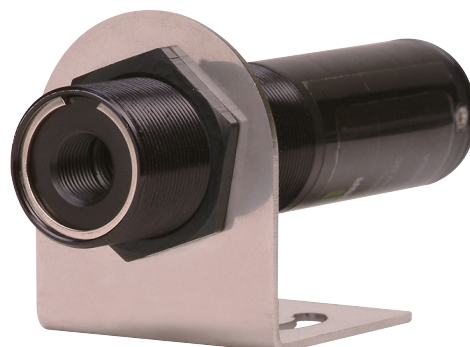


► Dimension

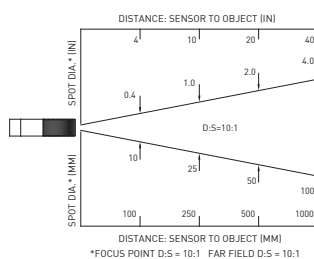


IR-20

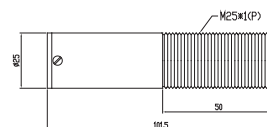
Non-contact infrared thermometer



► Optical Field of View



► Dimension



► Product Specification

Segment	IR-21
Range	0℃~400℃
Resolution	0.1℃
Emissivity	0.95
Response Time	Within 0.5 sec.
Accuracy	2℃ or ±1%
Field of View (D:S)	12:1
Wavelength Range	8~14μm
Input Power	12V~24V
Digital RS-485	4800, 9600
External Material	Aluminum
Cable Length	3M

► Code Number IR-21-□-□-□-□

Model	Description
Code A	Temperature range
1	0℃~200℃
2	0℃~400℃
3	-20℃~400℃
Z	Other
Code B	Output
M	DC 0~20mA
N	DC 4~20mA
Z	Other
Code C	Cable length
1	3M
Z	Other

*Free software

► Product Specification

Segment	IR-20
Range	0℃~400℃
Resolution	0.1℃
Emissivity	0.95(Fixed)
Response Time	Within 0.5 sec.
Accuracy	2℃ or ±1%
Field of View (D:S)	10:1
Wavelength Range	8~14μm
Input Power	12V~24V
External Material	Aluminum
Cable Length	3M

► Code Number IR-20-□-□-□-□

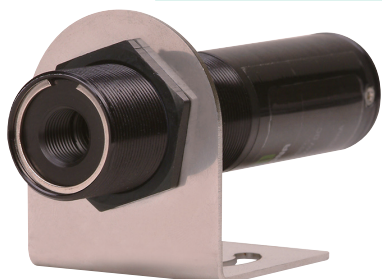
Model	Description
Code A	Temperature range
1	0℃~200℃
2	0℃~400℃
Z	Other
Code B	Output
N	DC 4~20mA
V	Voltage output DC 1~5V
Z	Other
Code C	Cable length
1	3M
Z	Other

Fixed Infrared Thermometer

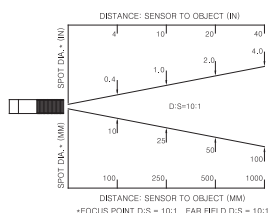
*OEM Service is available, Please contact us for further information.

IR-20-4W

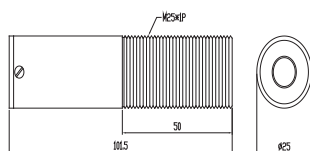
Non-contact infrared thermometer



▶ Optical Field of View



▶ Dimension



DI-20

Multi Input Indicator -compact type



▶ Product Specification

Segment	IR-20-4W
Range	0°C~400°C
Resolution	0.1°C
Emissivity	0.95(Fixed)
Response Time	Within 0.5 sec.
Accuracy	2°C or ±1%
Field of View (D:S)	10:1
Wavelength Range	8~14 μm
Input Power	12V~24V
External Material	Aluminum
Signal cable	4 wire shield type
Cable	3M

▶ Code Number IR-20-4W-□-□-□

Model	Description
Code A	Temperature range
1	0°C~200°C
2	0°C~400°C
Z	Other
Code B	Output
N	DC 4~20mA
V	Voltage output DC 1~5V
Z	Other
Code C	Cable length
1	3M
Z	Other

▶ Product Specification

Segment	DI-20
Input Type (User-Selectable Multiple Input)	TC (B, R, S, K, E, J, T, N), RTD (DIN PT1, DIN PT(0.1), JIS PT) DC (mV, V, mA)
Accuracy	±0.2% / Output Signal: ±0.25% (Full scale)
Dimensions and Display Cycle	100 ms (mV, Volt, mA type), 200 ms (TC, TRD type)
Input Resistance	Volt type is 400 kΩ, mA type is 250 Ω, 1 MΩ is for other types
Signal Source Resistance	PT100 Ω, 30 Ω/Line, Other types 300 Ω / Line
NMRR / CMRR	More than 50 dB / More than 140 dB
Alarm (Option)	Channels : 2 or 4 alarms, Contact point : 1a (Normal, Open) Contact capacity : AC 250 V / 5 A, DC 30 V / 5 A
Communication Specification (Option)	Kind : RS232, RS422, RS485, ID (Address) setup : 1 ~ 127 Signaling speed : 4800 bps ~ 57600 bps
Output Signal (Option)	Electrical insulation Current : DC4 ~ 20 mA / 600 Ω
Use Environment	Storage Temperature/Humidity : -20 °C~70 °C / 5%~95% Operating Temperature/Humidity : -5 °C~60 °C / 10%~90%
Power Consumption	3.5 W (Max.)
Input Power	AC 85V~264V
Insulation resistance	FG input, FG power, power input, More than 100 MΩ (500 VDC)
Built-in Sensor Power	DC 24 V / 30 mA / less than ±0.5 %
Weight	About 350g
Size (mm)	96 (W) x 48 (H) x 100 (D) mm
Installation Method	Panel-mounting type

Infrared Thermometer Accessories



Airpurg



Water-cooling jacket



Bracket



RS485 to RS232 Converter

Portable Infrared Thermometer

PIR550

Portable Infrared Thermometer



► Product Specification

Segment	PIR550
Range	-60°C~550°C
Wavelength Range	8~14μm
Operating Temperature	0~50°C
Accuracy	2°C or ±2% of measured value
Emissivity	0.1~1.0
Response Time	within 1 Sec.
Field of View (D:S)	12:1
Battery life	min 14 hours continuous use
Dimensions	143.9*116.73*42.78mm
Weight	180g(including battery)

PIR1500

Portable Infrared Thermometer



► Product Specification

Segment	PIR1500
Range	-35°C~1500°C
Wavelength Range	8~14μm
Operating Temperature	0~50°C
Accuracy	2°C or ±2% of measured value
Emissivity	0.1~1.0
Response Time	within 1 Sec.
Field of View (D:S)	75:1
Memory	Detailed 24 Memories with Temperature & Emissivity
Dimensions	143.9*116.73*42.78mm
Battery life	min 14 hours continuous use (without Laser and Back Light)
Dimensions	204.14*179.19*58.40mm
Weight	355g(including battery)

PIR2400

Portable Infrared Thermometer



► Product Specification

Segment	PIR2400
Range	200°C~2400°C
Wavelength Range	1~2μm
Operating Temperature	0~50°C
Accuracy	2°C or ±2% of measured value
Emissivity	0.1~1.0
Response Time	within 1 Sec.
Field of View (D:S)	100:1
Memory	Detailed 24 Memories with Temperature & Emissivity
Dimensions	143.9*116.73*42.78mm
Battery life	min 14 hours continuous use (without Laser and Back Light)
Dimensions	233.8*207.5*60.6mm
Weight	550g(including battery)

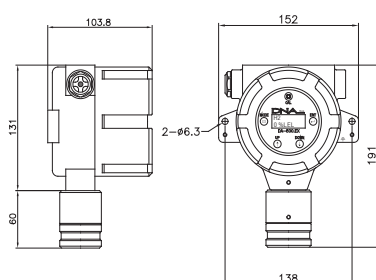
SMART Gas Detector

DA-500 Series

Indicator type,
Explosion proof



► Dimension

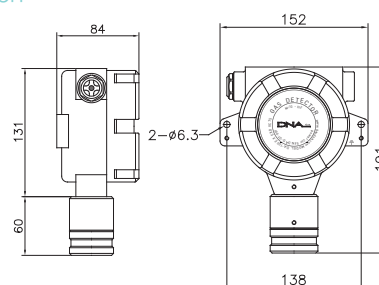


DA-100 Series

Non-indicator type,
Explosion proof



► Dimension



► Product Specification

Segment	DA-500
Detection Principle	Catalytic combustion, Non-dispersive infrared (NDIR), TCD, Electro-chemical
Detection Method	Diffusion type
Target Gas	Combustible gas, Toxic gas
Detection Range	0~100% LEL, 0~10,000 PPM, 0~100% VOL
Response Time	Within 20sec, 90%/full scale
Accuracy	$\leq \pm 2\%$ /full scale
Display	Back Light LCD(2 Line - 8 Characters)
Checking Function	Sensor fault indication on LCD (SEN -err), 2mA Output
Select ion Function	Calibration concentration, Detection range setting
Input Power	DC 20 ~ 30V
External Output	4mA~20mA / Full scale - 2.5Km Transmission
Operating Temperature/ Humidity	-30°C~60°C, 5~95% RH (Non-Condensing)
Signal Cable	CVVS & CVVSB 1.25sq x 3 Wire - Shield Type
Cable Conduit	1/2" or 3/4" PF, NPT
Installation Method	Wall or Pipe Station
External Material	Cast Aluminum Alloy
Explosion-Proof Approval	Ex d IIC T5 - KGS
Relay contacts	2 step-Relay Contact (High/Low), RS-485

► Product Specification

Segment	DA-100
Detection Principle	Catalytic combustion, TCD, Electro-chemical
Detection Method	Diffusion type
Target Gas	Combustible gas, Toxic gas
Detection Range	0~100% LEL, 0~10,000 PPM, 0~100% VOL
Response Time	Within 20sec, 90%/full scale
Accuracy	$\leq \pm 2\%$ /Full Scale
Checking Function	Sensor fault indication on FND (S.Er), 2 mA Output
Input Power	DC 20 ~ 30V
External Output	4mA~20mA / Full scale - 2.5Km Transmission
Operating Temperature/ Humidity	-30°C~60°C, 5~95% RH (Non-Condensing)
Signal Cable	CVVS & CVVSB 1.25sq x 3 Wire - Shield Type
Cable Conduit	1/2" or 3/4" PF, NPT
Installation Method	Wall or Pipe Station
External Material	Cast Aluminum Alloy
Explosion-Proof Approval	Ex d IIC T5 - KGS

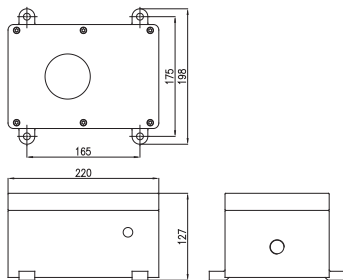
SMART Gas Detector

DA-800 Series

Suction type,
Explosion proof



► Dimension

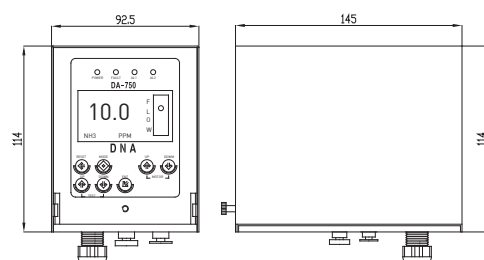


DA-750 Series

Suction type



► Dimension



► Product Specification

Segment	DA-800
Detection Principle	Catalytic combustion, TCD, NDIR, Electro-chemical, PID
Detection Method	Suction type
Target Gas	Combustible gas, Toxic gas, O ₂ , VOC
Detection Range	0~100% LEL, 0~100% VOL, 0~10,000 PPM
Response Time	Within 20sec, 90%/full scale
Accuracy	≤±2%/full scale
Induced Vacuum Flow	1.5 l/min ~ 2.5 l/min
Checking Function	Auto - Calibration With Magnetic Switch
Selection Function	Calibration concentration, Detection-range setting
Input Power	DC 20V ~ 30V
External Output	4mA~20mA / Full scale ~ 2.5Km Transmission
Operating Temperature /Humidity	-20℃~60℃, 5%~95% RH (Non-condensing)
Signal Cable	CVVS & CVVSB 1.25 sq x 3Wire shielded type
Cable Conduit	1/2" or 3/4" PF, NPT
Suction Line Conduit Pipe	1/4" Tube
Installation Method	Wall or pipe station
External Material	Cast Aluminum Alloy
Explosion-Proof Approval	Ex d IIB+H ₂ T6- Korea Testing Laboratory (KTL)
Output Options	2 Step Relay-Contact (High/Low), RS-485

► Product Specification

Segment	DA-750
Detection Principle	Catalytic, Electro-chemical, NDIR(Non-Dispersive Infrared), PID(Photoionization)
Detection Method	Suction Type
Input Power	DC 20V~30V (24 V DC Normal) / 250mA (Max.)
Induced Vacuum Flow	100cc~2.0 l/min
Accuracy	≤±2%/full scale
External Output	4mA~20mA DC, RS-485
Gas Leak Data Storage	Gas leak records: 4,000
Display	Graphic LCD (128 dots*64 dots) Korean/English PPM, % LEL, %VOL(Adjustable by user programming)
Operating Display	4 LEDs (Power, 2 Alarms, 1 Trouble)
Alarm Value Setting	AL1, AL2 2 Stage (Adjustable by user programming by user)
Alarm Delay Time	0 sec ~ 99 sec (Adjustable by user programming by user)
Relay Outputs	125V 0.6A / 3 SPST Relay-Contact (2 Alarm, 1 Trouble)
Operating Temperature/ Humidity	-20℃ ~ 60℃, 5% ~ 95% RH (Non-condensing)
Installation Method	Wall or pipe station
Signal Cable	CVVS & CVVSB 1.25 sq x 3 wire shielded type
Gas Flow Distance	Less than 100m
Gas Inlet Tube	6Ø Tube

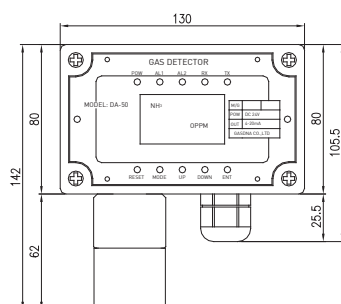
SMART Gas Detector

DA-50 Series

Indicator type



Dimension

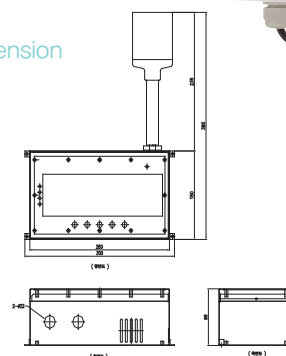


DA-91 Series

Audio-visual display
Gas detector



Dimension



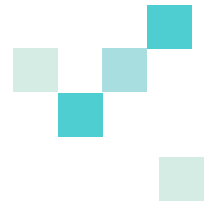
Product Specification

Segment	DA-50
Detection Principle	Catalytic, Electrochemical, Non-dispersive infrared (NDIR), Photo-ionization (PID)
Detection Method	Diffusion type
Input Power	DC 20V~30V (24V DC Normal) / 100mA (Max.)
Accuracy	$\leq \pm 2\%$ /full scale
External Output	4mA~20mA, 2Step Relay (AL1, AL2) RS-485
Display	LCD(8Characters*2Line) With Back-light %,PPM,PPb
Operating Display	4 LEDs (Power, 2 Alarms, 2 RS485 TX, RX)
Output Signal	4~20mA, RS-485
Relay Outputs	125 V 0.6 A / 2-SPST Relay-Contact (2 Alarms)
Target Gas	Combustible gas, Toxic gas
Installation Method	Wall or pipe station
Signal Cable	Cvvs & Cvvsb 1.25 sq *3Wire shielded type
Operating Temperature / Humidity	-20 °C ~ 60 °C, 5% ~ 95% RH (Non-condensing)

Product Specification

Segment	DA-91
Detection target gas	oxygen, nitrogen and toxic gas
Detection principle	Catalytic, Electro-chemical or NDIR
Response time	Within 20sec, 90%/full scale
Accuracy	$\leq \pm 2\%$ /full scale
Input power	AC 220V/60Hz
External output	4~20mA, 2stage(AL1/AL2) Alarm RELAY CONTACT, RS-485(Optional)
Alarm display	Low Alarm - AL1 LED(RED)
	High Alarm - AL2 LED(RED)
	Light bar - BZ LED(RED)
Alarm type	Sight-Light bar
	hearing - buzzer(90dB/1m)
Operating Temperature / Humidity	-20°C~50°C, 5~95% RH (Non-Condensing)
Alarm off	Manual, Automatic return
Installation Method	Wall Mounting Type
Measuring range	0 ~ 10,000 ppm

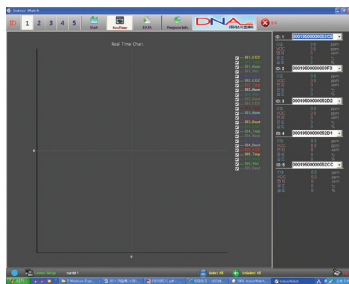
Wireless Indoor Air / Smoke Sensor Quality Monitor



IAQ-700 Wireless Indoor Air Quality Monitor



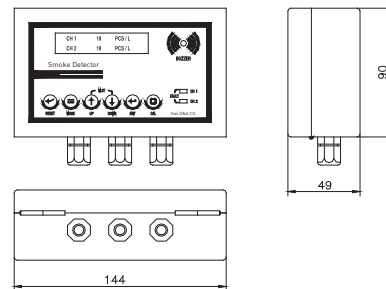
IAQ-700 is a high accuracy indoor air quality monitor, which measures VOC, CO₂, Temperature, humidity and dust. It provides real-time monitoring and can transmit data wirelessly. Relay-contact make it possible to interwork with a ventilating system.



SD-110 Smoke Sensor



Dimension



Product Specification

Segment		Specification
VOC	Measurement range	0 ~ 1000 ppm
	Resolution	1 ppm
	Accuracy	≤±3%/Full Scale
	Response time	Within 10 sec (T90)
CO ₂	Measurement range	400 ~ 10,000 ppm
	Resolution	10 ppm
	Accuracy	≤±5%/Full Scale
	Response time	Within 30 sec (T90)
DUST	Measurement range	0 ~ 500 µg/m ³
	Resolution	1 µg/m ³
	Accuracy	≤±3%/Full Scale
	Response time	Within 10 sec (T90)
Temperature	Measurement range	-25 ~ 60 °C
	Resolution	0.2 °C
	Accuracy	≤±2%/Full Scale
	Response time	Within 10 sec (T90)
Humidity	Measurement range	0~100%RH
	Resolution	0.4% RH
	Accuracy	≤±3%/Full Scale
	Response time	Within 15 sec (T90)
Communication		ZigBee
Input power		DC 9V ~ DC24V
Density Display		320×240 DOT Graphic LCD Display
Alarm Display		AL-1,AL-2 LED(RED)
Alarm Output		2 Step RELAY CONTACT
Operation Temperature/ Humidity		-10°C ~ 70°C / 5 ~ 95%RH (Non-Condensing)
Dimension		310×157×60
Installation		Wall Mounting Type

Product Specification

Segment	SD - 110
General Form	1 or, 2 Channel Monitoring
Product Type	Wall-mounting type
Detection Principle	Ionizations Smoke Chamber
Detection Method	Diffusion type
Response Time	within 5 sec
Detection Range	0~500 Pcs/L
External Output	4~20mA
Input Power	DC 24V
Alarm Type	High / Low 2 Step Alarm (user-setup)
Alarm off-type	Manual or Automatic (user-selection)
Signal Cable	CVVS & CVVSB 1.25sq x 3 Wire - Shield Type
Operating Current	500mA. Maximum
System Initialization Time	within 50 sec
External Structure	Monitoring Unit - Metal, Sensor Unit - Aluminum
Operating Temperature/ Humidity	-20°C~50°C / 0~95% RH (Non-Condensing)
Process-Type	Digital Process

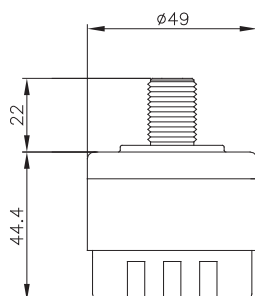
Smoke Sensor / Digital Controller

SD-50

Smoke Sensor



► Dimension

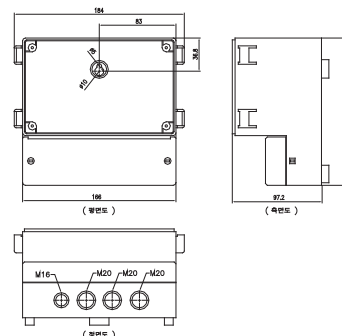


GMS-1000

Single-Channel Digital controller of Gas detector



► Dimension



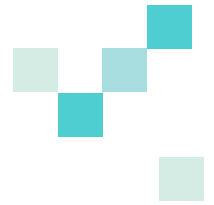
► Product Specification

Segment	SD - 50
Detection Principle	Ionizations Smoke Chamber
Detection Method	Diffusion type
Response Time	Within 3 sec.
External Output	A contact (DC 30 V 1 A), B contact
Input Power	DC 22V~26V
Operating Current	25mA (max.)
External Material	Acetal
Operating Temperature/ Humidity	-20℃~65℃ / 0~95% RH (Non-condensing)

► Product Specification

Segment	GMS - 1000
Structure	Single type / 1 Circuit
Input Power	AC 230V/60Hz
Input Signal	4mA~20mA DC / Full scale
Output Power	DC 24V(250mA)
Output Signal	4mA~20mA DC / Full scale
Signal Resolution	A/D Converter - ± 20000 D/A Converter - 12bit
Display	% LEL (Combustible), % (Oxygen), PPM (Toxic)
Alarm Display	Low alarm AL1 LED (Red) High alarm AL2 LED (Red) Fault alarm Fault LED (Yellow)
Alarm Type	Visual : LED flickering Auditory : Buzzer sound (More than 80 dB)
Alarm Density	AL1 / AL2 2 Level alarm density (Adjustable by user programming by user)
Alarm Delay Time	0 sec ~ 99 sec (Adjustable by user programming by user)
Alarm Off	Manual , Automatic return
Alarm Output	2 Level (AL1 / AL2) Relay-Contact
Operating Temperature	-20 ℃ ~ 70 ℃
Operating Humidity	5% ~ 95% RH (Non-condensing)
External Material	Poly Carbonate (PC)
Installation Method	Wall Mounting

Digital Controller of Gas Detector

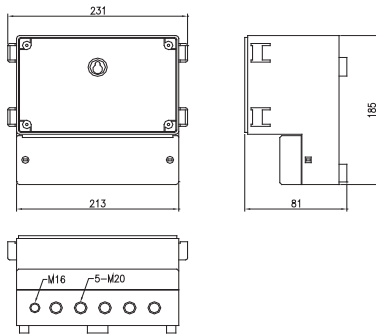


GMS-1500

4-Channel Digital controller of Gas detector



► Dimension

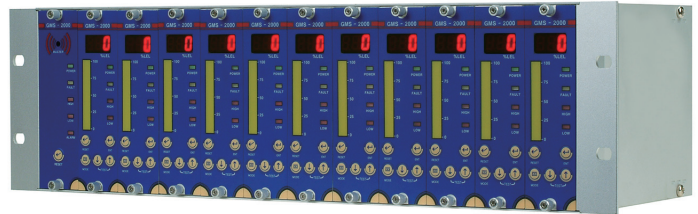


► Product Specification

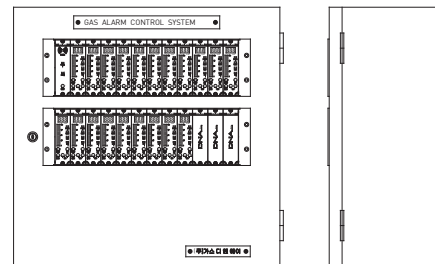
Segment	GMS - 1500
Structure	Multiple-type (4 Connection detectors) / 4 Circuits
Input Power	AC 220 V / 60 Hz, AC 110 V / 60 Hz (Option)
Input Signal	4 Channels (4mA~20mA / FS)
Output Power	DC 24V(250mA)
Output Signal	4 Channels (4mA~20mA / FS)
Display	LCD Display PPM, % LEL, %, PPB (Adjustable by user programming by user)
Alarm Display	Low alarm AL1 LED (Red) High alarm AL2 LED (Red) Fault alarm Fault LED (Yellow)
Alarm Type	Visual : LED Flickering Auditory : Buzzer sound (More than 80 dB)
Alarm Value Setting	AL1/AL2 2 Level alarm (Adjustable by user programming by user)
Alarm Delay Time	0 sec ~ 99 sec (Adjustable by user programming by user)
Alarm Off	Manual, Automatic return
Alarm Output	250 V 5 A / 11-SPST Relay-Contact (10 Alarms, 1 Fault)
Operating Temperature	-20°C~70°C
Operating Humidity	5 ~ 95%RH (Non-Condensing)
External Material	Poly Carbonate (PC)
Installation Method	Wall Mounting

GMS-2000

Multi-Channel Digital controller of Gas detector



► Dimension



► Product Specification

Segment	GMS - 2000	
	Power & Alarm Unit	Receiving Unit
Control Structure	Alarm unit : Receiving unit = 1:1 ~ 64	Receiving unit : detector = 1:1
Extension Structure	Slide Card Type	
Input Power	AC 230V / 60Hz	
Output Power	DC 24V(250mA)	
Input Signal	4~20mA DC/F.S	
Output Signal	4 ~ 20mA DC/F.S, RS-485(Optional)	
Display	% LEL (Combustible), % (Oxygen), PPM (Toxic)	
Power Display	Power LED (Green)	
Power Display	Alarm LED (Red) Alarm LED flickering	Low alarm AL1 LED (Red) High alarm AL2 LED (Red) Fault alarm - Fault LED (Yellow)
Alarm Type	Buzzer sound (More than 80 dB)	Visual : Applicable alarm LED Flickering
Alarm Density		High / Low ~ 2Level alarm density (Adjustable by user programming by user)
Alarm Delay Time		0 sec ~ 99 sec (Adjustable by user programming by user)
Alarm Off	Manual, Automatic return	
Alarm Output	SPST Relay output for High / Low 2Level alarm SPST Relay output for Fault alarm	
Operating Temperature / Humidity	-20°C~60°C, 5~95%RH (Non-Condensing)	
External Material	19" (3U) Unit : Aluminum / System enclosure : Metal case	
Output Options	RS-485	

Combustible Gas Detection

Target Gas	Molecular Formula	Target Gas	Molecular Formula
Acetaldehyde	CH ₃ CHO	Iso-butane	i-C ₄ H ₁₀
Acetic acid	CH ₃ COOH	Iso-propyl alcohol	(CH ₃) ₂ CHOH
Acetone	CH ₃ COOH ₃	Methane	CH ₄
Acetylene	C ₂ H ₂	Methyl alcohol	CH ₄ O
Benzene	C ₆ H ₆	Methyl bromide	CH ₃ Br
Butane	C ₄ H ₁₀	Naphthalene	C ₁₀ H ₈
Chloro benzene	C ₆ H ₅ Cl	Octane	CH ₃ (CH ₂) ₆ CH ₃
Cyclohexane	C ₆ H ₁₂	Pentane	CH ₃ CH ₂ CH ₂ CH ₃
Di-Methylethar	CH ₃ OCH ₃	Phenol	C ₆ H ₅ OH
Ethane	C ₂ H ₆	Propane	C ₃ H ₈
Ethanol	CH ₃ CH ₂ OH	Propylene	C ₃ H ₆
Ethylene	C ₂ H ₄	Propylene oxide (PO)	C ₃ H ₆ O
Ethylene glycol (EG)	HOCH ₂ CH ₂ OH	Thinners	
Ethylene oxide (EO)	C ₂ H ₄ O	Toluene	C ₇ H ₈
Formic acid	CH ₂ O ₂	Vinyl acetate (VAM)	CH ₂ =CHOCOCH ₃
Gasoline		Vinyl chloride	CH ₂ =CHCl
Heptane	CH ₃ (CH ₂) ₅ CH ₃	Xylene	C ₈ H ₁₀ =C ₆ H ₄ [CH ₃] ₂

※For other gases, Please inquire with us.

Target Gas Detection

Gas Name	Chemical Formula	Range	Sensor Part Number			
			DA-750	DA-50	DA-500	DA-100
Ammonia	NH ₃	0~100 ppm	DA-750-NH ₃	DA-50-NH ₃	DA-500-NH ₃	DA-100-NH ₃
Arsine	AsH ₃	0~1.00 ppm	DA-750-AsH ₃	DA-50-AsH ₃	DA-500-AsH ₃	DA-100-AsH ₃
Boron Trichloride	BCl ₃	0~15.0 ppm	DA-750-BCl ₃	DA-50-BCl ₃	DA-500-BCl ₃	DA-100-BCl ₃
Boron Trifluoride	BF ₃	0~10.0 ppm	DA-750-BF ₃	DA-50-BF ₃	DA-500-BF ₃	DA-100-BF ₃
Bromine	Br ₂	0~1.00 ppm	DA-750-Br ₂	DA-50-Br ₂	DA-500-Br ₂	DA-100-Br ₂
Carbon Dioxide	CO ₂	0~5.00%vol	DA-750-CO ₂	DA-50-CO ₂	DA-500-CO ₂	DA-100-CO ₂
Carbon Monoxide	CO	0~300 ppm	DA-750-CO	DA-50-CO	DA-500-CO	DA-100-CO
Chlorine	Cl ₂	0~10.0 ppm	DA-750-Cl ₂	DA-50-Cl ₂	DA-500-Cl ₂	DA-100-Cl ₂
Chlorine Dioxide	ClO ₂	0~2.00 ppm	DA-750-ClO ₂	DA-50-ClO ₂	DA-500-ClO ₂	DA-100-ClO ₂
Chlorine Trifluoride	ClF ₃	0~2.00 ppm	DA-750-ClF ₃	DA-50-ClF ₃	DA-500-ClF ₃	DA-100-ClF ₃
Diborane	B ₂ H ₆	0~1.00 ppm	DA-750-B ₂ H ₆	DA-50-B ₂ H ₆	DA-500-B ₂ H ₆	DA-100-B ₂ H ₆
DiboraneDichlorosilane	H ₂ SiCl ₂	0~10.0 ppm	DA-750- H ₂ SiCl ₂	DA-50- H ₂ SiCl ₂	DA-500- H ₂ SiCl ₂	DA-100- H ₂ SiCl ₂
Difluoromethane	CH ₂ F ₂	0~100 ppm	DA-750-CH ₂ F ₂	DA-50-CH ₂ F ₂	DA-500-CH ₂ F ₂	DA-100-CH ₂ F ₂
Disilane	Si ₂ H ₂	0~10.0 ppm	DA-750-Si ₂ H ₂	DA-50-Si ₂ H ₂	DA-500-Si ₂ H ₂	DA-100-Si ₂ H ₂
Flourine	F ₂	0~10.0 ppm	DA-750-F ₂	DA-50-EO	DA-500-F ₂	DA-100-F ₂
Germane	GeH ₄	0~1.00 ppm	DA-750-GeH ₄	DA-50-GeH ₄	DA-500-GeH ₄	DA-100-GeH ₄
Hexafluorobutadiene	C ₄ F ₆	0~50.0 ppm	DA-750- C ₄ F ₆			
Hydrogen	H ₂	0~100%VOL	DA-750-H ₂ -H		DA-500-H ₂ -H	
Hydrogen(% LEL)	H ₂	0~100%LEL	DA-750-Combustible	DA-50- Combustible	DA-500- Combustible	DA-100- Combustible
Hydrogen(ppm)	H ₂	0~2000 ppm	DA-750-H ₂	DA-50-H ₂	DA-500-H ₂	DA-100-H ₂
Hydrogen Bromide	HBr	0~10.0 ppm	DA-750-HBr	DA-50-HBr	DA-500-HBr	DA-100-HBr
Hydrocarbon	HC	0~100%LEL	DA-750-NDIR		DA-500-NDIR	
Hydrogen Chloride	HCl	0~10.0 ppm	DA-750-HCl	DA-50-HCl	DA-500-HCl	DA-100-HCl
Hydrogen Cyanide	HCN	0~50.0 ppm	DA-750-HCN	DA-50-HCN	DA-500-HCN	DA-100-HCN
Hydrogen Fluoride	HF	0~10.0 ppm	DA-750-HF	DA-50-HF	DA-500-HF	DA-100-HF
hydrogen peroxide	H ₂ O ₂	0~100 ppm	DA-750- H ₂ O ₂	DA-50- H ₂ O ₂	DA-500- H ₂ O ₂	DA-100- H ₂ O ₂
Hydrogen Sulphide	H ₂ S	0~10.0 ppm	DA-750-H ₂ S	DA-50-H ₂ S	DA-500-H ₂ S	DA-100-H ₂ S
Hydrogen Sulphide(High Level)	H ₂ S	0~100 ppm	DA-750-H ₂ SH	DA-50-H ₂ SH	DA-500-H ₂ SH	DA-100-H ₂ SH
Methane(%LEL)	CH ₄	0~100%LEL	DA-750- Combustible	DA-50- Combustible	DA-500- Combustible	DA-100- Combustible
Methyl Fluoride	CH ₃ F	0~60 ppm	DA-750-CH ₃ F	DA-50-CH ₃ F	DA-500-CH ₃ F	DA-100-CH ₃ F
methylene chloride	CH ₂ CL ₂	0~5000 ppm	DA-750- CH ₂ CL ₂		DA-500- CH ₂ CL ₂	
Nitrogen Dioxide	No ₂	0~20.0 ppm	DA-750-No ₂	DA-50-No ₂	DA-500-No ₂	DA-100-No ₂
Nitric Oxide	NO	0~100 ppm	DA-750-NO	DA-50-NO	DA-500-NO	DA-100-NO
Nitrogen Trifluoride	NF ₃	0~30.0 ppm	DA-750-NF ₃	DA-50-NF ₃	DA-500-NF ₃	DA-100-NF ₃
Octofluorocyclopentene	C ₅ F ₈	0~40 ppm	DA-750-C ₅ F ₈	DA-50-C ₅ F ₈	DA-500-C ₅ F ₈	DA-100-C ₅ F ₈
Oxygen Proficiency&Deficiency	O ₂	0~25%vol	DA-750-O ₂	DA-50-O ₂	DA-500-O ₂	DA-100-O ₂
Ozone	O ₃	0~1.00 ppm	DA-750-O ₃	DA-50-O ₃	DA-500-O ₃	DA-100-O ₃
Phosphine	PH ₃	0~1.00 ppm	DA-750-PH ₃	DA-50-PH ₃	DA-500-PH ₃	DA-100-PH ₃
Phosphorous Oxychloride	POCl ₃	0~1.00 ppm	DA-750-POCl ₃	DA-50-POCl ₃	DA-500-POCl ₃	DA-100-POCl ₃
Silane	SiH ₄	0~20.0 ppm	DA-750-SiH ₄	DA-50-SiH ₄	DA-500-SiH ₄	DA-100-SiH ₄
Sulfur Dioxide	SO ₂	0~20.0 ppm	DA-750-SO ₂	DA-50-SO ₂	DA-500-SO ₂	DA-100-SO ₂
Sulfur Hexafluoride	SF ₆	0~8000 ppm	DA-750- SF ₆			
Sulfur Tetrafluoride	SF ₄	0~10.0 ppm	DA-750-SF ₄	DA-50-SF ₄	DA-500-SF ₄	DA-100-SF ₄
Tetra Ethyl Ortho Sillicate	TEOS	0~40 ppm	DA-750-TEOS	DA-50-TEOS	DA-500-TEOS	DA-100-TEOS
Tungsten Hexafluoride	WF ₆	0~12.0 ppm	DA-750-WF ₆			
Volatile Orogenic Compounds	VOCs	0~1000 ppm	DA-750-PID		DA-500-PID	

※For other gases, Please inquire with us.