

Multi-Point Type

Gas Detection & Alarm System

NV Series

Features

Monitors gas leakage even during a power failure or other lifeline failures. (on models with a built-in backup power supply)
 Continuously monitors for 30 minutes after a power failure, then intermittently monitors for 2 days. The interval between observations depends on the number of detection points. (NV-500)
 Continuously monitors for 30 minutes after a power failure. (NV-400/410/600HS/010)
 Operated normally in a seismic qualification test equal to intensity of 7 on the Japanese earthquake scale.
 Earthquake-resistant design considering great earthquakes.
 A plastic molded case which contains the electronic circuit is hard to break and has substantially improved insulation. The case structure has been refined to increase the strength.
 Gas concentration at the time of an alarm is shown at a glance.
 NV-410 has a scale of 0 to 10. (No unit)
 Battery life can be measured by one-touch operation. (Battery life check function)
 Very easy to change the alarm set value. (key)
 NV-500/010 has extremely easy zero adjustment and span adjustment. (One-touch calibration function)
 Wide operating voltage range of 85-264V.
 NV-500/010 comes with Zero suppression function.



Indicator unit

Alarm unit

System Configuration

Indicator/Alarm Unit



LP gas detection & alarm system NV-500



Town gas, Industrial gases detection & alarm system NV-400 NV-410



For hydrogen filling stations NV-600HS



For Ammonia refrigerating facilities NV-010

Gas Detector Heads

Diffusion type



KD-5B-N

Diffusion type



KD-5

Suction type



PE-2DC

Diffusion type



KD-7

Accessories/Options

Options (sold separately)



KW-22
Rainproof cap

KW-15
Rainproof cover

EB-5
External buzzer

Options (sold separately)



PW-51/KW-11,12
Rainproof cover

EB-5
External buzzer

Options (sold separately)



KW-71
Rainproof cover for KD-7

EB-5
External buzzer

Multi-Point Type

Gas Detection & Alarm System

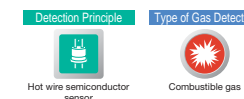
NV Series

LP Gas Detection & Alarm System NV-500 Specifications



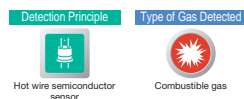
Item	Model	NV-500
Detection Principle		Catalytic combustion
Gas Detected		LPG
Detection Points per Unit		Monitors 2 points per unit
Detection Range		0-100%LEL (isobutane)
Concentration Indicator		LCD bar-graph meter (53 dots×2 lines)
Alarm Set Value Indication		Direct reading scale
Backlight		Yes
Peak Hold Function (on alarm)		Holds a peak value on alarm, which is canceled by the Reset
Alarm Set Value(default value)/Change of the Set Value		24 or 16%LEL/ key
Alarm Accuracy		±25% of an Alarm Set Value (under identical conditions)
Response Time		30s or less at 160% concentration of an Alarm Set Value (excluding sampling delay for suction type)
Alarm Indication	Individual Alarm Lamp Self-holding type	On alarm: Flashes red, lights up after the Buzzer Stop Complete lock (Turn off by the Reset after the level declined)
Alarm Sound	Standard Operation Voice Alarm	On alarm: Intermittent buzzer, stops after the Buzzer Stop On alarm: Intermittent buzzer
External Alarm Output	Individual Alarm Contact	1a no-voltage (Contact capacity: 2A@100V AC)
	Individual Voltage Output	0-6-12V DC (20mA or less)
	Collective Alarm Contact	1c no-voltage (Contact capacity: 2A@100V AC)
	Centralized Monitor Panel Output	0-6-12V DC (20mA or less)
	External Buzzer Contact	1a no-voltage (Contact capacity: 2A@100V AC)
	External Buzzer Voltage Output	Intermittent voltage signal (12V DC, 10mA or less)
Alarm Delay		Selectable by a DIP switch (10s constant)
Main Power Source		85-264V AC
Power Consumption	When using KD-5 When using PE-2DC	Diffusion type (15+3.5n)VA Suction type (15+7.5n)VA
Backup Power Source (only on models with a built-in backup power supply)	Battery Type	Sealed lead acid battery
	Overdischarge Prevention Function	Yes
	Battery Life Check Function	Yes
	Battery Voltage Indication	2-digit LED
Exterior Color		Munsell 2.5PB 7.0/1.0

For Hydrogen filling stations NV600HS Specifications



Item	Model	NV-600HS
Detection Principle		Hot wire semiconductor
Gas Detected		Hydrogen and other combustible gases
Detection Points per Unit		Monitors 2 points per unit
Detection Range		As per specifications
Concentration Indicator		LCD bar-graph meter (53 dots×2 lines)
Alarm Set Value Indication		Direct reading scale
Backlight		Yes
Peak Hold Function (on alarm)		Holds a peak value on alarm, which is canceled by the Reset
Alarm Set Value		Adjustable with the detection range
Alarm Accuracy		±25% of an Alarm Set Value (under identical conditions)
Response Time		30s or less at 160% concentration of an Alarm Set Value (excluding sampling delay for suction type)
Alarm Indication	Individual Alarm Lamp Self-holding type	On alarm: Flashes red, lights up after the Buzzer Stop Complete lock (Turn off by the Reset after the level declined)
Alarm Sound		On alarm: Intermittent buzzer, stops after the Buzzer Stop
External Alarm Output	Individual Alarm Contact	1a no-voltage (Contact capacity: 2A@100V AC)
	Individual Voltage Output	0-6-12V DC (20mA or less)
	Collective Alarm Contact	1c no-voltage (Contact capacity: 2A@100V AC)
	Centralized Monitor Panel Output	0-6-12V DC (20mA or less)
	External Buzzer Contact	1a no-voltage (Contact capacity: 2A@100V AC)
	External Buzzer Voltage Output	Intermittent voltage signal (12V DC, 10mA or less)
Alarm Delay		Selectable by a DIP switch (10s constant)
Main Power Source		85-264V AC
Power Consumption	When using KD-5 When using PE-2DC	Diffusion type (15+3.5n)VA Suction type (15+8n)VA
Backup Power Source (only on models with a built-in backup power supply)	Battery Type	Sealed lead acid battery
	Overdischarge Prevention Function	Yes
	Battery Life Check Function	Yes
	Battery Voltage Indication	2-digit LED
Exterior Color		Munsell 2.5PB 7.0/1.0

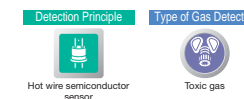
Town gas, Industrial gases Detection & Alarm System NV-400/NV-410 Specifications



Item	Model	NV-400/NV-410 *1
Detection Principle		Hot wire semiconductor
Gas Detected		NV-400:Town gas (Natural gas) NV-410:Town gas or Industrial gases
Detection Points per Unit		Monitors 2 points per unit
Detection Range		NV-400: 0-100%LEL NV-410: As per specifications
Concentration Indicator		LCD bar-graph meter (53 dots×2 lines)
Alarm Set Value Indication		Direct reading scale(except NV-410)
Backlight		Yes
Peak Hold Function (on alarm)		Holds a peak value on alarm, which is canceled by the Reset
Alarm Set Value (default value)		NV-400: 10%LEL for 1st stage, 24%LEL for 2nd stage NV-410: As per specifications
Alarm Accuracy		±25% of an Alarm Set Value (under identical conditions)
Response Time		NV-400/410: 30s or less at 160% concentration of an Alarm Set Value (excluding sampling delay for suction type)
Alarm Indication	Individual Alarm Lamp Self-holding type	On alarm: Flashes red, lights up after the Buzzer Stop Complete lock (Turn off by the Reset after the level declined)
Alarm Sound		On alarm: Intermittent buzzer, stops after the Buzzer Stop
External Alarm Output	Individual Alarm Contact	1a no-voltage (Contact capacity: 2A@100V AC)
	Individual Voltage Output	0-6-12V DC (20mA or less)
	Collective Alarm Contact	1c no-voltage (Contact capacity: 2A@100V AC)
	Centralized Monitor Panel Output	0-6-12V DC (20mA or less)
	External Buzzer Contact	1a no-voltage (Contact capacity: 2A@100V AC)
	External Buzzer Voltage Output	Intermittent voltage signal (12V DC, 10mA or less)
Alarm Delay		Selectable by a DIP switch (10s constant)
Main Power Source		85-264V AC
Power Consumption	When using KD-5 When using PE-2DC	Diffusion type (15+3.5n)VA Suction type (15+8n)VA
Backup Power Source (only on models with a built-in backup power supply)	Battery Type	Sealed lead acid battery
	Overdischarge Prevention Function	Yes
	Battery Life Check Function	Yes
	Battery Voltage Indication	2-digit LED
Exterior Color		Munsell 2.5PB 7.0/1.0

* 1 Also usable for other gases.

For Ammonia Refrigerating Facilities NV-010 Specifications



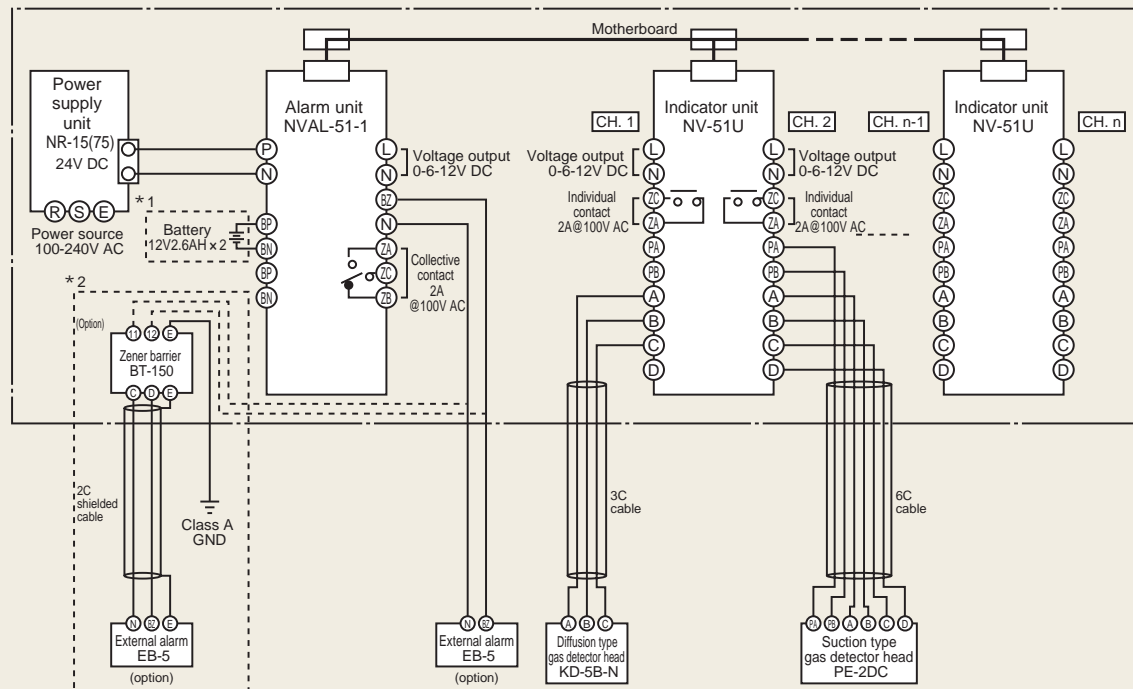
Item	Model	NV-010
Detection Principle		Hot wire semiconductor
Gas Detected		Ammonia leaked into the air
Detection Points per Unit		Monitors 2 points per unit
Detection Range		0-400ppm
Concentration Indicator		LCD bar-graph meter (53 dots×2 lines)
Alarm Set Value Indication		Direct reading scale
Backlight		Yes
Peak Hold Function (on alarm)		Holds a peak value on alarm, which is canceled by a reset operation
Alarm Set Value(default value)		50 or 100ppm/ key
Change of the Set Value		
Alarm Accuracy		±30% of an Alarm Set Value (under identical conditions)
Response Time		60s or less at 160% concentration of an Alarm Set Value
Alarm Indication	Individual Alarm Lamp Self-holding type	On alarm: Flashes red, lights up after the Buzzer Stop Complete lock (Turn off by the Reset after the level declined)
Alarm Sound		On alarm: Intermittent buzzer, stops after the Buzzer Stop
External Alarm Output	Individual Alarm Contact	1a no-voltage (Contact capacity: 2A@100V AC)
	Individual Voltage Output	0-6-12V DC (20mA or less)
	Collective Alarm Contact	1c no-voltage (Contact capacity: 2A@100V AC)
	Centralized Monitor Panel Output	0-6-12V DC (20mA or less)
	External Buzzer Contact	1a no-voltage (Contact capacity: 2A@100V AC)
	External Buzzer Voltage Output	Intermittent voltage signal (12V DC, 10mA or less)
Alarm Delay		Selectable by a DIP switch (10s constant)
Main Power Source		85-264V AC
Power Consumption		(15+3.5n)VA
Backup Power Source (only on models with a built-in backup power supply)	Battery Type	Sealed lead acid battery
	Overdischarge Prevention Function	Yes
	Battery Life Check Function	Yes
	Battery Voltage Indication	2-digit LED
Exterior Color		Munsell 2.5PB 7.0/1.0

Multi-Point Type

Gas Detection & Alarm System

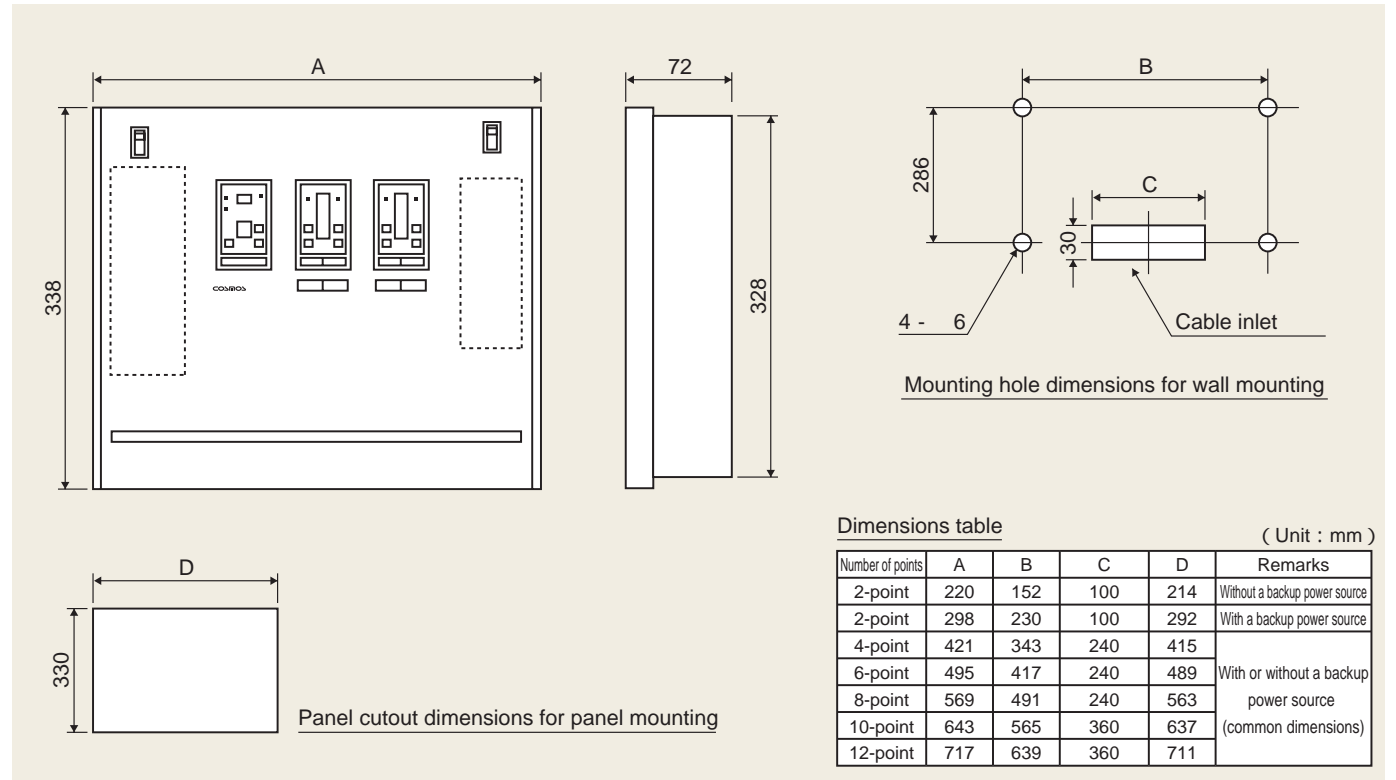
NV Series

V-500/NV-400/NV-410/NV-010 Terminal Arrangements

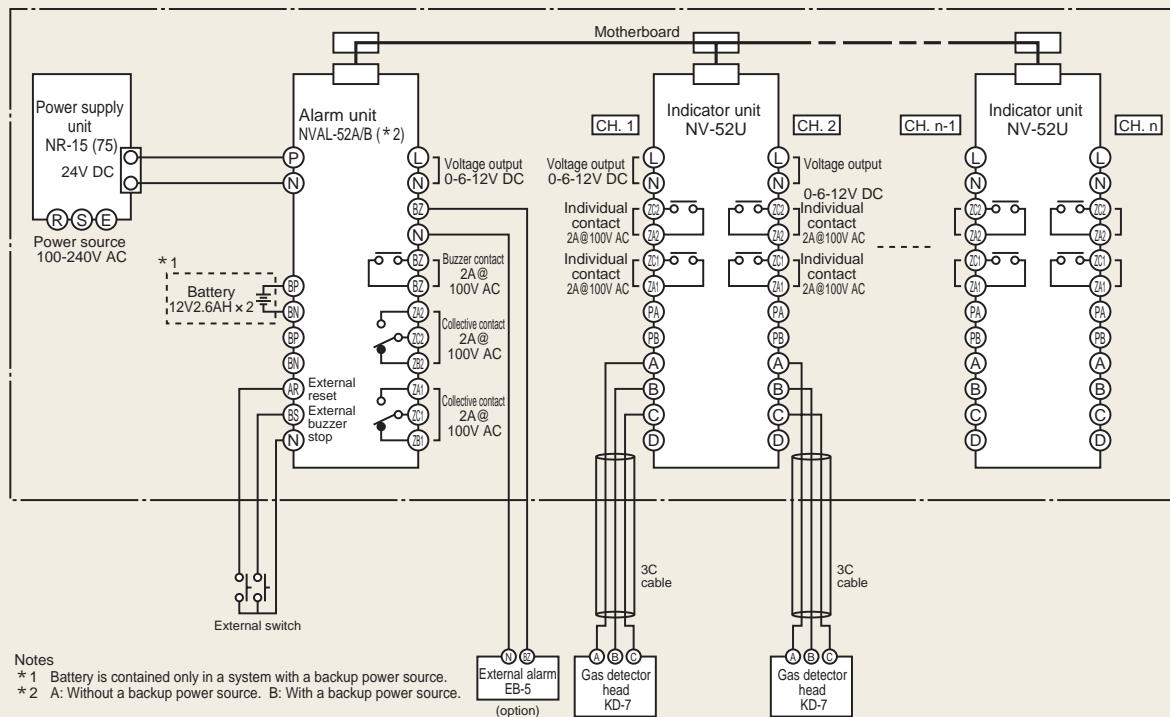


Notes
 *1 Battery is contained only in a system with a backup power source.
 *2 For intrinsically safe explosion-proof work.

NV Series Dimensions

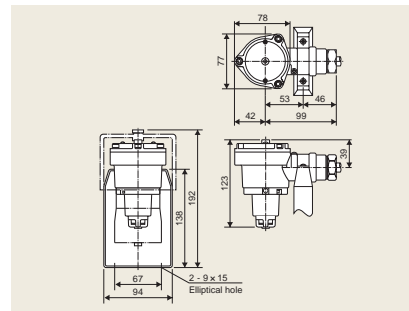


NV-010 Terminal Arrangements

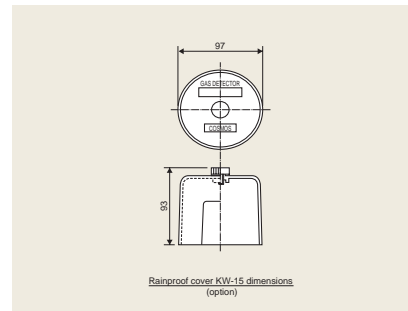


Notes
 *1 Battery is contained only in a system with a backup power source.
 *2 A: Without a backup power source. B: With a backup power source.

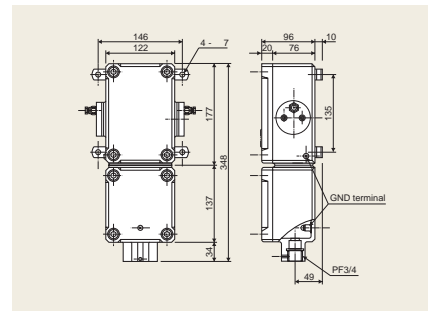
KD-5 Dimensions



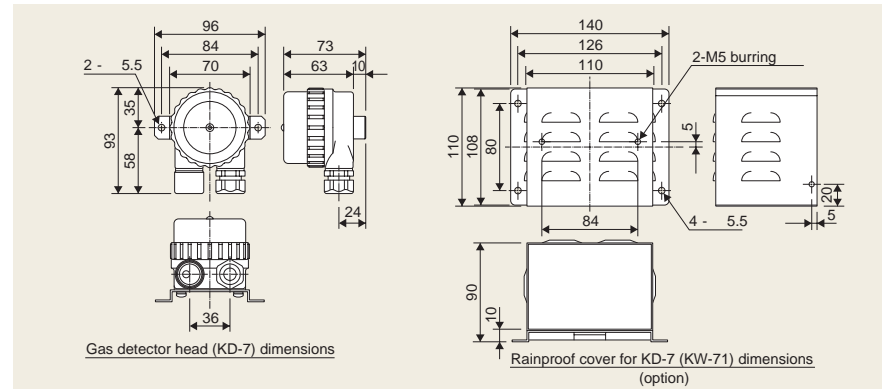
KW-15 Dimensions



PE-2DC Dimensions



KD-7/KW-71 Dimensions



EB-5 Dimensions

