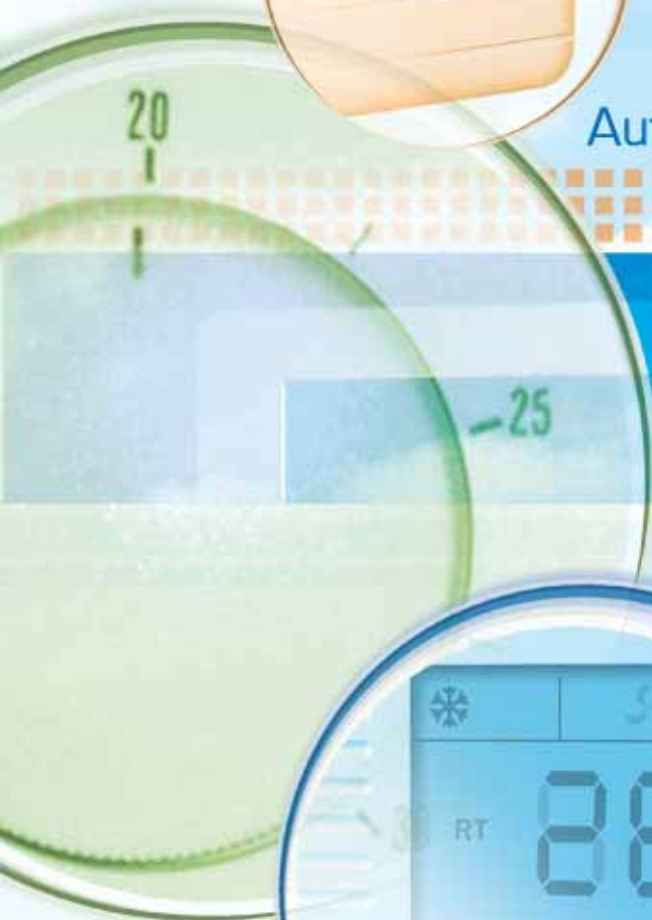




Automatic HVAC Controls



PRODUCT GUIDE



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NON-DIGITAL THERMOSTATS

ON/OFF TYPE

NVS-027

FEATURES

- System Switch : Heat /Off /Cool or On/Off
- Fan Switch : 3 speed (High / Med / Low)
- Mode : Cooling / Heating or Cooling

SPECIFICATION

Power Supply	: 220 VAC \pm 15% (50/60 Hz)
Temp Control Range	: 10 to 30 $^{\circ}$ C
Control Precision	: About \pm 0.8 $^{\circ}$ C at 20 $^{\circ}$ C
Working Condition	: 0 to 50 $^{\circ}$ C



NVH-109

FEATURES

- System Switch : Heat /Off /Cool
- Fan Switch : 3 speed (High / Med / Low)
- 2 & 4 Pipe System

SPECIFICATION

Power Supply	: 220 VAC \pm 15% (50/60 Hz)
Temp Control Range	: 10 to 30 $^{\circ}$ C
Control Precision	: About \pm 0.8 $^{\circ}$ C at 20 $^{\circ}$ C
Working Condition	: 0 to 50 $^{\circ}$ C

OPTIONS

NVH-109F	Only controls fan coil
NVH-109D	2 pipe configuration
NVH-109D4	4 pipe configuration
NVH-109Y	Controls electric diffuser



DIGITAL THERMOSTATS

ON/OFF TYPE

NVH-2010

FEATURES

- Large screen LCD
- Clock function, time control start/stop function
- Remote Control (optional)
- Blue Backlight (optional)
- Fan speed can be set to manual or automatic
- 7 days programmable (optional)

SPECIFICATION

Power Supply : 220 VAC \pm 15% (50/60 Hz)
Temp Control Range : 5 to 35°C
Accuracy of Temp Control : 1°C

OPTIONS

NVH-2010F Fan Coil
NVH-2010D Fan Coil & Electric Valve
NVH-2010Y Electric Damper Motor
NVH-2010R Electric Heater



NVH-2005

FEATURES

- No mechanical moving parts
- Cool and heat change is made by button
- Fan speed selectable manually; when auto, speed varies with temp (minimum 1st speed running)
- Continuous fan operations when fan speed is set to On
- Automatic fan control (On / Off cycling and speed) with control signal

SPECIFICATION

Power Supply : 220 VAC \pm 15% (50/60Hz)
Temp Control Range : 5 to 35°C
Accuracy of Temp Control : 1°C

OPTIONS

NVH-2005F Fan Coil
NVH-2005D Fan Coil & Electric Valve
NVH-2005Y Electric Damper Motor
NVH-2005R Electric Heater



DIGITAL THERMOSTATS

ON / OFF TYPE

NVK-0024

FEATURES

- Fan On / Auto Switch
- 3 Speed Fan Control
- Heat / Cool / Off Switch
- Remote sensor (optional)
- Automatic fan control (On / Off cycling) with control signal

SPECIFICATION:

Power Supply : 24, 110, 220(240) VAC
Contact Rating : 7A (3A) @250V
Temperature Sampling Rate : 1 Minute
Switching Differential : 1° C or 2° F
Temperature Control Range : 5 to 35° C
Temperature Display Range : 0 to 39° C



NVK-402

FEATURES

- Fan On / Auto Switch
- Heat / cool / off Switch
- Automatic fan control (On / Off cycling) with control signal

SPECIFICATION:

Power Supply : 24 VAC
Contact Rating : 6A(2A) @250V
Temperature Sampling Rate : 1 Minute
Switching Differential : 1° C or 2° F
Temperature Control Range : 5 to 35° C
Temperature Display Range : 0 to 39° C



DIGITAL THERMOSTATS

ON / OFF TYPE

NVK-7281J

FEATURES

- LED Indicator for output signal status
- Application : VAV terminals, zone valves, single stage heaters, and damper actuators

SPECIFICATION

Power Supply: 24 / 110 / 220 (240) VAC (50 - 60Hz)
Contact rating: 7A (3A) @250V
Temperature Sampling Rate: 1 Minute
Switching Differential: 1° C
Temperature Control Range: 5 to 35° C
Temperature Display Range: 0 to 39° C



NVK-7281HU

FEATURES

- With On/Off Switch
- Application : VAV terminals, single stage heaters, fans and damper actuators

SPECIFICATION

Power Supply: 24 / 110 / 220 (240) VAC (50 - 60Hz)
Contact Rating: 7A (3A) @250V
Temperature Sampling Rate: 1 Minute
Switching Differential: 1° C
Temperature Control Range: 5 to 35° C
Temperature Display Range: 0 to 39° C



MODULATING THERMOSTATS

NVK-0514

FEATURES

- 3-speed / single speed / no fan control (options)
- Remote and seasonal changeover sensor (options)
- Digital display of set point, space temp & operating mode
- Fahrenheit or Celsius display capability

SPECIFICATION

Power Supply : 24VAC
Contact Rating : 3A Inductive; 5A Resistive @240V
Proportional Band : 2° F [1.1° C]
Control Output : 0 to 10VDC or 4 – 20mA

* All the above can be supplied as single or dual outputs



NVS-05EH

FEATURES

- Single Speed
- Digital Display with 3 back-light choices (Green / Blue / Yellow)
- Built-in NTC thermistor temp sensor (remote sensor optional)

SPECIFICATION

Power Supply : 220±10% / 24VAC
Control Output : 3 point floating or 0 to 10 VDC output
Set Point Range : 10 to 30° C



NVS-04EH

FEATURES

- Proportional or Floating
- System power switch & 3 speed fan switch
- Built-in temperature sensor (remote sensor optional)

SPECIFICATION

Power Supply: 220±10% / 24VAC
Sensitive Element: NTC Thermistor [10k Ω]
Control Output : 3 point or 0 to 10 VDC
Set Point Range: 10 to 30° C



DIGITAL THERMOSTATS

PROGRAMMABLE

NVK-0123G

FEATURES

- Heat / Cool / Off Switch
- 7D, 5+2D Programming Blocks*, 6/4 Periods
- Programming Resolution: 15 or 30 Minutes

SPECIFICATION

Power Supply: 220 (240) VAC
Contact Rating: 8A (3A) @250V
Temperature Sampling Rate: 1 Minute
Switching Differential: 0.5 to 2° C (Adjustable)
Temperature Control Range: 5 to 32° C
Temperature Display Range: 0 to 50° C

*7D: One Week, All Independent, 5+2D: Weekdays + Weekend

Options Available: Heat / Cool / Off / Auto [1 speed fan control].... NVK-0123G1A
Heat / Cool / Off / (3 speed fan control).... NVK-0123G3
Heat / Cool / Off / Auto [3 speed fan control].... NVK-0123G3A



NVK-5000

FEATURES

- Programming up to four times periods and 8 temperature setpoints for each day
- Set different schedules for each day of the week
- Backlight for easy readability of display when a key is pressed
- Select fan operation for each period of each day
- Memory chip retains settings in case of power failure

SPECIFICATION

Powered with Battery 1.5V x 3
Sensing Element: NTC
Housing: ABS Flame retardant
Set Point Range: 4.5 to 32° C Heating
7 to 37° C Cooling



DIGITAL THERMOSTATS

PROGRAMMABLE

NVK-0484

FEATURES

- 5+2D, 7D, 7DS Programming Blocks*
- 6 / 4 Periods
- Programming Resolution: 10 Minutes
- Fan On/Auto Switch
- 3 Speed Fan Control
- Heat /Cool /Off Switch

SPECIFICATION

Power Supply: 24, 110, 220 (240) VAC
Contact Rating: 6A (2A) @250V
Temperature Sampling Rate: 1 Minute
Switching Differential: 1° C (Adjustable)
Temperature Control Range: 5 to 35° C
Temperature Display Range: 0 to 38° C



*5+2D: Weekdays + Weekend, 7D: One Week, All Independent, 7DS: 24Hours, One Program for 7Days.

NVK-412

FEATURES

- 7D, 6+1D, 5+2D, 4+3D Programming Blocks*
- 6/4 Periods
- Programming Resolution : 10 Minutes
- Preset Temperature Value : T1, T2, T3
- Fan On/Auto Switch
- Heat / Cool / Off Switch

*7D: One Week, All Independent, 6+1D: Monday - Saturday + Sunday, 5+2D: Weekdays + Weekend, 4+3D: Monday - Thursday + Friday - Sunday.

SPECIFICATION

Power Supply: 24VAC
Contact Rating : 6A (2A) @250V
Temperature Sampling Rate: 1 Minute
Switching Differential: 1°C (Adjustable)
Temperature Control Range: 5 to 35° C
Temperature Display Range: 0 to 40° C
Temperature Scale: Celsius or Fahrenheit



DIGITAL THERMOSTATS

PROGRAMMABLE

NVK-0505

FEATURES

- Floor Heating System
- Battery Low Indicator
- 5+2D, 7D, 7DS Programming Blocks*
- Usage Record
- Vacation Hold
- Override 1-9 Hours
- Mixed Room & Floor Temperature Control

SPECIFICATION:

Power Supply: 1.5V AAA Battery x 2
Contact Rating: 16A (3A) @250V
Temperature Sampling Rate: 1 Minute
Switching Differential: 0.5 to 3.5° C (Adjustable, Default: 1° C)
Temperature Control Range:
 Floor Temperature 10 to 45° C
 Room Temperature 5 to 35° C
Temperature Display Range: 0 to 50° C

*5+2D: Weekdays +Weekend, 7D: One Week, All Independent, 7DS: 24 Hours, One Program for 7 Days.



NVK-0108H

FEATURES

- For Floor Heating System
- 7D, 5+2D Programming Blocks*, 6 / 4 Periods
- Programming Resolution: 15 or 30 Minutes
- Vacation Hold 1 - 99 Days. Temporary Override
- 4m Floor Sensor Cable (Optional)

*7D: One Week, All Independent, 5+2D: Weekdays + Weekend (4m Floor Sensor Cable (Optional))

SPECIFICATION

Power Supply: 1.5V AA Battery x 2
Contact Rating: 16A (3A) @250V
Temperature Sampling Rate: 1 Minute
Switching Differential: 0.5 to 2° C (Adjustable)
Temperature Control Range:
 Room Temperature 5 to 32° C
 Floor Temperature 20 to 40° C
Temperature Display Range: 10 to 45° C



CONTROL VALVES + ACTUATOR

ON / OFF TYPE

NVS-03

FEATURES

- Valve body material: Forging brass
- Valve rod material: Brass
- Seal material: NBR
- Actuator base: Stainless steel
- Actuator cover: Aluminum alloyed
- 16 bar working pressure
- 220 VAC Power supply



SPECIFICATIONS AND DATA

MODEL	TYPE	SIZE	KV	CLOSING PRES.[Mpa]
NVS032W1220	Normal closed 2-way	G 1/2	2.0	0.20
NVS032W1232	Normal closed 2-way	G 1/2	3.2	0.15
NVS033W1243	Diverting 3-Way	G 1/2	4.3	0.15
NVS032W3420	Normal closed 2-way	G 3/4	2.0	0.20
NVS032W3432	Normal closed 2-way	G 3/4	3.2	0.15
NVS033W3446	Diverting 3-Way	G 3/4	4.6	0.15
NVS032W1168	Normal closed 2-way	G 1/2	6.8	0.10
NVS033W1157	Diverting 3-Way	G 3/4	5.7	0.10

NVH4000

FEATURES

- Valve body material: Forging brass
- Stainless base with aluminum shell
- Pop up type or classic type
- Working medium: Water
- 16 bar working pressure

SPECIFICATION:

Power Supply: 220VAC ± 10% (50/60Hz)

Power Consumption: <7W

Media Temperature: 5~90° C

Valve Action Time: open<10s, return<6s

Working Environment: 5~60° C, 10% - 95% RH



TECHNICAL SPECIFICATIONS (2 way & 3 way)

NO.	Model	Size	Body Structure	Kv [Cv]Value	Closing Pressure [Mpa]
1	NVH4000-15	1/2"	Actuator and valve body fixed together (classic)	2.2[2.5]	0.20
2	NVH4000-20	3/4"		3.0[3.5]	0.18
3	NVH4000-25	1"		6.9[8.0]	0.15
4	NVH4000-15	1/2"	Actuator is easily dismantled from valve body (popup)	2.2[2.5]	0.20
5	NVH4000-20	3/4"		3.0[3.5]	0.18
6	NVH4000-25	1"		6.9[8.0]	0.15

CONTROL VALVES + ACTUATOR

MODULATING TYPE

NVS-05

FEATURES

- 2 way & 3 way type
- Floating and proportional 0 – 10 VDC or 4 – 20mA control Signal
- 20 bar working pressure
- 24, 110 & 220VAC power supply
- Forged brass body
- Detachable actuator (popup type)
- Flame proof plastic base & cover



SPECIFICATION:

Model	Type	Connection Thread	Kv	Closing Pressure (Mpa)	Working Medium	Fluid Temperature	Electrical Rating
NVS05GC21520A	2-way	G1/2	2.0	0.3	Chilled water / Hot Water	<94 °C	220VAC (standard) 110 & 24VAC (optional)
NVS05GC21532A			3.2				
NVS05GC22032A		G3/4	3.2				
NVS05GC22046A			4.6				
NVS05GC22557A		G1	5.7				
NVS05GC22568A			6.8				
NVS05GC232AQA	G1 1/4	10.0					
NVS05GB31532A	3-way	G1/2	3.2				
NVS05GB32046A			G3/4				
NVS05GB32557A		G1	5.7				
NVS05GB33284A			G1 1/4	8.4			

CONTROL VALVE ACTUATOR (MODULATING)

NVAS-4000

DESCRIPTION

NVAS - 4000 series actuator is an electronic and mechanical product. It can be mounted on NVBS - 4000 series valve. It can also be mounted on other valves by different connectors.

CHARACTERISTICS

- Low AC voltage synchronous reversible motor, magnetic clutch
- Valve operating position indicator
- Can be equipped with two auxiliary switches and manual control rod [optional]
- Suitable for 15mm, 17mm, 19mm stroke. As for increasing proportional control type, the stroke can be selected by a jumper
- Proportional type 0 - 10V DC or 4 - 20mA control can be selected direct or reversible operation by a jumper



SPECIFICATIONS AND TECHNICAL DATA

MODEL	NVAS-4100 [NVAS-4200]	NVAS4102 [NVAS4202]
OPERATION / CONTROL	Reversible, increasing control	Proportional control Direct or reversible
ELECTRONIC CIRCUIT		Power supply: 24V AC \pm 10% 50/60Hz Available input signal range: 0 - 10VDC or 4 - 20mA Input resistance: 100 K Ω .
MOTOR TYPE	Bi-directional synchronous motor with magnetic clutch	
MOTOR POWER STAGE	24 VAC 50/60 Hz 2.3VA	
POWER CONSUMPTION OF CIRCUIT		2VA
NORMAL TORQUE	500N	
MATERIAL	Gear : polyoxymethylene plastic	
	Reducer down board : zinc-plating steel	
	Bracket : casting aluminium	
	Casing : flameproof ABS engineering plastic	
FULL STROKE TIME	For NVAS-41xxseries, 50Hz : 11.23sec/mm, 60 Hz : 9.35sec/mm	
TEMPERATURE LIMIT	Operation : - 5 to 55 $^{\circ}$ C	
MAX. RH	90% No condensation	
ELECTRONIC CARD		Connect the terminal with wires of 1.5mm ²
EX-FACTORY SETTING		17mm stroke Signal losing position : up
ACCESSORIES	U-type connector, lock nut, guide indicator	
ACCESSORIES FOR OPTIONAL	Manual operator device-M, End of stroke power shut off switch-K	
NET WEIGHT	0.820kg	0.870kg

CONTROL VALVE ACTUATOR (MODULATING)

NVAS-5000

DESCRIPTION

NVAS - 5000 series actuator is an electronic and mechanical product. It can be mounted on NVBS - 5000 series valve. It can also be mounted on other valves by different connectors.

CHARACTERISTICS

- Low AC voltage synchronous reversible motor, magnetic clutch
- Valve operating position indicator
- Can be equipped with two auxiliary switches and manual control rod (optional)
- Suitable for 15mm, 17mm, 19mm, 22mm stroke. As for increasing or proportional control type, the stroke can be selected by a jumper
- Proportional type 0 - 10V DC or 4 - 20mA, control can be selected direct or reversible operation by a jumper



SPECIFICATIONS AND TECHNICAL DATA

MODEL	NVAS-5100 [NVAS-5200]	NVAS5102 [NVAS5202]
OPERATION / CONTROL	Reversible, increasing control	Proportional control Direct or reversible
ELECTRONIC CIRCUIT	-	Power supply: 24V AC \pm 15% 50/60Hz Available input signal range: 0 - 10VDC or 4 - 20mA input resistance: 100 K Ω
MOTOR TYPE	Bi-directional synchronous motor with magnetic clutch	
MOTOR POWER STAGE	24 VAC 50/60 Hz 5.5VA	
POWER CONSUMPTION OF CIRCUIT	-	2VA
NORMAL TORQUE	For NVAS-51 series is 1000, for NVAS-52 series is 1500N	
MATERIAL	Gear : Stainless steel, brass	
	Reducer down board : Zinc-plating steel	
	Bracket : Casting aluminium	
	Casing : Flameproof ABS engineering plastic	
FULL STROKE TIME	For NVAS-51xx series, 50Hz : 4.6sec/mm, 60 Hz : 3.8sec/mm For NVAS-52xx series, 50Hz : 7.77sec/mm, 60Hz : 6.45sec/mm	
TEMPERATURE LIMIT	Operation: - 5 to 55 °C	
MAX.RH	No condensation	90% No condensation
ELECTRONIC CARD	-	Connect the terminals with wires of 1.5mm ²
EX-FACTORY SETTING	-	22mm stroke Signal losing position: Up
ACCESSORIES	Lock nut, scale gauge, scale indicator	
ACCESSORIES FOR OPTIONAL	Manual operator device-M, End of stroke power shut off switch-K	
NET WEIGHT	1.1kg	1.15kg

CONTROL VALVE ACTUATOR (MODULATING)

NVAS-9000

DESCRIPTION

NVAS - 9000 series actuator is an electronic and mechanical product. It can be mounted on NVBS - 9000 series valve. It can also be mounted on other valves by different connectors.

CHARACTERISTICS

- Low AC voltage synchronous reversible motor
- Can be equipped with manual control rod (optional)
- Suitable for 24mm, 36mm, 40mm, 42mm stroke. As for proportional control type, the stroke can be selected by a jumper
- Proportional type 0 - 10V DC or 4 - 20mA, control can be selected direct or reversible operation by a jumper



SPECIFICATIONS AND TECHNICAL DATA

MODEL	NVAS-9100 [NVAS-9200]	NVAS9102 [NVAS9202]
OPERATION / CONTROL	Reversible, increasing control	Proportional control Direct or reversible
ELECTRONIC CIRCUIT	-	Power supply : 24V AC $\pm 10\%$ (50/60Hz) Available input signal range: 0 - 10VDC or 4 - 20mA Input resistance: 100 K Ω
MOTOR TYPE	Bi-directional synchronous motor	
MOTOR POWER STAGE	24 VAC 50/60 Hz 10VA	
POWER CONSUMPTION OF CIRCUIT		2VA
NORMAL TORQUE	For NVAS-91series is 2500,for NVAS-92 series is 4000N	
MATERIAL	Gear : Stainless steel, brass	
	Reducer down board : Zinc-plating steel	
	Bracket : Casting aluminium	
	Casing : Flameproof ABS engineering plastic	
FULL STROKE TIME	For NVAS-91xseries, 50Hz : 4.6sec/mm, 60 Hz : 3.8sec/mm For NVAS-92xseries, 50Hz : 8.3sec/mm, 60Hz : 6.9sec/mm	
TEMPERATURE LIMIT	Operation: -5 to 55°C	
MAX.RH	No condensation	90% No condensation
ELECTRONIC CARD	-	Connect the terminals with wires of 1.5mm ²
EX-FACTORY SETTING	-	42mm stroke Signal losing position:Up
ACCESSORIES	Lock nut, scale gauge, scale indicator	
ACCESSORIES FOR OPTIONAL	Manual operator device-M, End of stroke power shut off switch-K	
NET WEIGHT	4.1kg	4.3kg

CONTROL VALVE

NVBS-4000

DESCRIPTION

NVBS - 4000 series threaded casting brass valve equipped with electronic driving control device can control the flow of cold/hot water. It is widely used to control the flow in central air-conditioning, heating, water handling systems and industrial processing industry.



SPECIFICATIONS AND TECHNICAL DATA

VALVE MODEL	SIZE (mm)	TYPE	KV	MAX.DIFFERENTIAL PRESSURE [Mpa]	STROKE [mm]
				NVBS - 4xxx	
NVBS4200-25	25	2-WAY	8	0.6	15
NVBS4200-32	32		15	0.4	19
NVBS4200-40	40		22	0.3	19
NVBS4200-50	50		35	0.2	19
NVBS4300-25	25	3-WAY	8	0.6	15
NVBS4300-32	32		15	0.4	19
NVBS4300-40	40		22	0.3	19
NVBS4300-50	50		35	0.2	19

DESCRIPTION		NVBS-4000 VALVE
MATERIAL	VALVE BODY / VALVE CAP	Casting brass
	VALVE SEAT / VALVE RING	Brass
	VALVE STEM SEAL MATERIAL	Double V - type and O-type combination nitrile rubber seal material, Fluon seal cover
	VALVE PLUG / VALVE PLATE	Forging brass with tensible gasket
	VALVE STEM	Stainless steel AISI 302
PRESSURE RATING		16 Bar
WORKING MEDIUM		Water
FLOW TEMPERATURE		-10 to 95°C
CONNECTION		BSP parallel inner thread type [BS21]
CHARACTERISTICS		Linearity
LEAKAGE		When kv=0.2 or 0.4, Leakage=0.1% of kv factor When kv is other value, Leakage=0.05 % of kv value

CONTROL VALVE

NVBS-5000

DESCRIPTION

NVBS - 5000 series threaded casting brass valve equipped with electronic driving control device can control the flow of vapor, cold/hot water. It is widely used to control the flow in central air-conditioning, heating, water handling systems and industrial processing industry



SPECIFICATIONS AND TECHNICAL DATA

VALVE MODEL	SIZE [mm]	TYPE	KV	MAX.DIFFEREN PRESSURE [Mpa]		STROKE [mm]
				NVBS-51xx	NVBS-52xx	
NVBS-5200-25	25	2-WAY	8	1	1.4	15
NVBS-5200-32	32		16	0.75	1.1	19
NVBS-5200-40	40		25	0.5	0.8	19
NVBS-5200-50	50		40	0.3	0.5	22
NVBS-5200-65	65		63	0.2	0.35	22
NVBS-5300-25	25	3-WAY	8	1	1.4	15
NVBS-5300-32	32		16	0.75	1.1	19
NVBS-5300-40	40		25	0.5	0.8	19
NVBS-5300-50	50		40	0.3	0.5	22
NVBS-5300-65	65		63	0.2	0.35	22

DESCRIPTION		NVBS-5000 STANDARD VALVE
MATERIAL	VALVE BODY / VALVE CAP	Csting Brass / Forging Brass
	VALVE SEAT / VALVE RING	Brass
	VALVE STEM SEAL MATERIAL	Double V- type & G-type combination nitrile rubber seal material, Fluon seal Cover
	VALVE PLUG	Forging brass with tensible gasket / Nitrile rubber
	VALVE STEM	Stainless Steel AISI 302
PRESSURE RATING		16 Bar
WORKING MEDIUM		Water
FLOW TEMPERATURE		- 10 to 95°C
CONNECTION		BSP parallel inner thread type [BS21]
CHARACTERISTICS		Linearity
LEAKAGE		Less than 0.05 % of kv value

CONTROL VALVE

NVBS-9000

DESCRIPTION

NVBS - 9000 series flanged casting Iron valve equipped with electronic driving control device can control the flow of vapor, cold/hot water. It is widely used to control the flow in central air-conditioning, heating, water handling systems and industrial processing industry.



SPECIFICATIONS AND TECHNICAL DATA

VALVE MODEL	SIZE [mm]	TYPE	KV	STROKE [mm]	MAX DIFFERENTIAL PRESSURE (Mpa)	
					NVBS91xx	NVBS92xx
NVBS-9200-65	65	2-WAY	63	22	0.8	1.2
NVBS-9200-80	80		100	42	0.6	1.0
NVBS-9200-100	100		160	42	0.4	0.6
NVBS-9200-125	125		250	42	0.3	0.4
NVBS-9200-150	150		360	42	0.2	0.3
NVBS-9200-200	200		450	42	0.1	0.2
NVBS-9300-65	65	3-WAY	63	22	0.8	1.2
NVBS-9300-80	80		100	42	0.6	1.0
NVBS-9300-100	100		160	42	0.4	0.6
NVBS-9300-125	125		250	42	0.3	0.4
NVBS-9300-150	150		360	42	0.2	0.3
NVBS-9300-200	200		450	42	0.1	0.2

DESCRIPTION		NVBS-9000 VALVE
MATERIAL	VALVE BODY / VALVE CAP	HT250
	VALVE SEAT / VALVE RING	Brass
	VALVE STEM SEAL MATERIAL	Fluon ring + Nitrile rubber O-type seal ring
	VALVE PLUG	Casting Brass
	VALVE STEM	Stainless Steel
PRESSURE RATING		16 Bar
WORKING MEDIUM		Water
FLOW TEMPERATURE		- 10 to 95°C
CONNECTION		PN 16 flange
CHARACTERISTICS		Linearity
LEAKAGE		Less Than 0.05% of kv value

NVK-621

CHARACTERISTICS

- One Channel
- LCD time display
- LED indication ON
- Manual ON / AUTO / OFF
- 7D & 5 + 2D Programming Blocks*

Program setting
• 6 ON / 6 OFF

Technical Data
Supply voltage : 24VAC, 110VAC, 220VAC, 24VAC /
12VDC & 24VDC
Power consumption : Approx. 7VA
Contact rating for
NVK-621 & NVK-621L : 16A(8A) @250V
Contact rating for
NVK-621H : 20A(10A) @250V
Programming resolution : 1 minute
Optional accessories : Frame & bracket

*7D = One week, All independent
5 + 2D = Weekdays + Weekend



NVK-0524

CHARACTERISTICS

- Two Channels
- LCD time display
- 7D & 5 + 2D Programming Blocks*
- Separate LED indicator for each channel
- Manual ON / AUTO / OFF
- Temporary override
- Lithium battery for memory back up.

Program setting
• 18 ON / 18 OFF for each channel

Technical Data
Supply Voltage : 220VAC \pm 10%
Power Consumption : Approx. 7VA
Contact Rating : 16A(8A) @250V
Programming Resolution : 1 minute
Optional Accessories : Frame & bracket

*7D = One week, All independent
5 + 2D = Weekdays + Weekend



NVK-825

CHARACTERISTICS

- One Channel
- LCD time display
- LED indication ON
- Manual ON / AUTO / OFF
- Slide in bracket
- Weekly and 24 hrs. programming block

Program setting

- 8 ON / 8 OFF

Technical Data

Supply voltage : 124VAC, 110VAC, 220VAC, 24VAC / 12VDC & 24VDC

Power consumption : Approx. 7VA

Contact rating : 16A(8A) @250V

Programming Resolution : 1 minute

Option

Slide in bracket available



NVK-6331J

CHARACTERISTICS

- One Channel
- LCD time display
- LED indication ON
- Manual ON/AUTO/OFF
- 7D*
- Wall Mounting

Program setting

- 8 ON / 8 OFF or 6 ON / 6 OFF

Technical Data

Supply voltage : 124VAC, 110VAC, 220VAC, 24VAC / 12VDC & 24VDC

Power consumption : Approx. 7VA

Contact rating : 16A(8A) @250V

Programming Resolution : 1 minute

*7D = One week, All independent



NVK-850

CHARACTERISTICS

- One Channel
- LCD time display
- LED indication ON
- Manual ON / AUTO / OFF
- Memory back up: Lithium battery

Program setting
 • 8 ON / 8 OFF

Technical Data
 Supply Voltage : 124VAC, 110VAC, 220VAC, 24VAC /
 12VDC & 24VDC

Power Consumption : Approx. 7VA
 Contact Rating : 16A(3.5A) @ 250V
 Programming Resolution : 1 minute

Rail Mounting



NVK-814

CHARACTERISTICS

- Two channels
- Manual / ON / OFF / AUTO
- Rail mounting
- Lithium battery for memory backup

Program setting
 • 4 On / 4 Off for channel 1
 • 3 On / 3 Off for channel 2

Technical Data
 Supply Voltage : 124VAC, 110VAC, 220VAC, 24VAC /
 12VDC & 24VDC

Contact Rating : 16A(8A) @250V
 Power Consumption : 8VA
 Programming Resolution : 1 minute



NVK-6335

CHARACTERISTICS

- LCD time display
- LED indication ON
- Manual ON/AUTO/OFF

Program setting
 • 8 ON / 8 OFF

Technical Data
 Supply Voltage : 110 & 220 VAC (50 - 60Hz)
 Contact Rating : 15A / 125V, max. 1875 watts resistive
 : 1 / 3HP motor load
 : 10A / 250V, max. 2500 watts resistive
 Switching Command : 1 minute



NVK-6383

CHARACTERISTICS

- 2 in 1 wall switch timer and socket
- LCD indication for time of day weekday & switching status for easy readout.
- LED indication ON
- Random mode for security
- Manual ON / AUTO / OFF

Program setting
 • 8 ON / 8 OFF

Technical Data
 Supply Voltage : 220VAC ±15%
 Contact Rating : 16A(8A) @250V
 Programming Resolution : 1 minute



NVK-6384

CHARACTERISTICS

- Cycling ON/OFF
- LED indication ON
- Outlet completely insulated while timer is OFF
- Setting a desired count down time
- Time limits of 10, 50, 100 minutes, and 10 hours are available
- 6 types for selection

Technical Data

Supply Voltage	: 220VAC \pm 15%
Contact Rating	: 16A(BA) @250V
switching Command	: 1 minute



TEMPERATURE SENSORS

TYPES AVAILABLE

- NVS-NTC Thermistor (5K & 10 K)
Range = 0 - 120°C
- NVS-PT Resistance (1000 & 100)
Range = -50 to 150°C

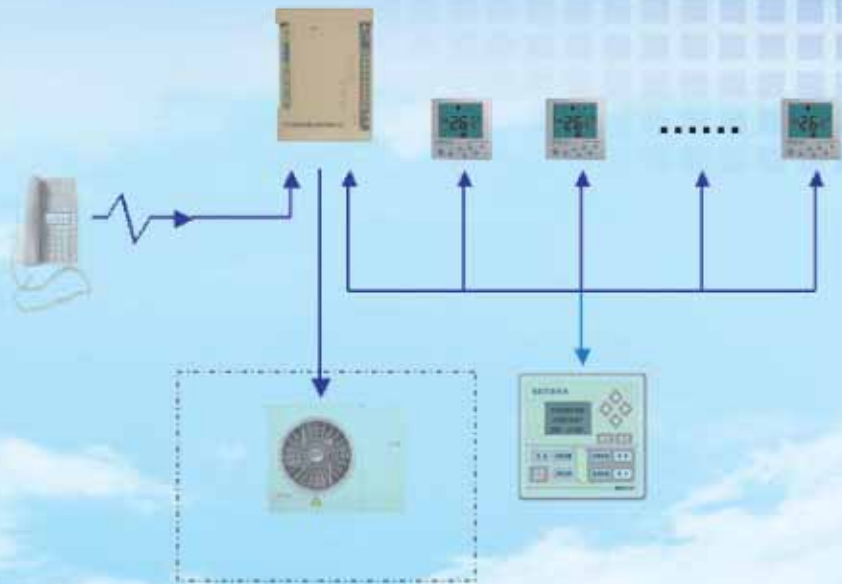
Protection class: IP54



Telephone Operated System

DESCRIPTION

The system is composed of a telephone manager main controller, some network thermostats, and household appliance controllers. All parts are communicated through the RS485 bus (four-core cable) to form a certificate management control system.



SYSTEM FUNCTION

This system integrates compact central air conditioning unit remote control, household appliance remote control and safety alarm functions. It not only meets people's need for living convenience, comfort and safety, but also attains energy saving purpose. It has three control and operation modes:

A. Telephone Remote Control

1. To control the turn on/off of thermostat by telephone and realize online control of air conditioning system.
2. To remote control the switch on/off of household appliance [multiplex] by telephone.
3. In case of failure of air conditioning system, safety device automatically dials the telephone alarm.

B. Timer Control

All end thermostat of the central air conditioning unit and other household appliances can be turned on or turned off at set time.

C. Manual Operation on site

All end thermostat of the central air conditioning unit and other household appliances can be operated on site (by using main control panel or direct operation of thermostat and household appliance).

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