SPECIFICATIONS

[General Specifications]

Model		NBM-D88NN
Rated Voltage		24VDC
Operating Voltage Range		Rated Voltage ±10%
Rated Current Consumption	Max.	0.6A
Operating Ambient Temperature		0°C to +40 °C
Operating Ambient Humidity		20-80% (No condensation)
Storage Ambient Temperature		-20°C to +65°C
Storage Ambient Humidity		Less than 80% (No condensation)
Mounting Location		Indoors
Mounting Direction		Upright
Protection Rating		IP 20 (IEC 60529)
Vibration Resistance		9.8m/s² (IEC 60068-2-6)
Mass (Tolerance ±10%)		1.15 kg
Outer Dimensions		Refer to the Outer Dimension Drawing
Conformity Standards		RoHS Directive (EN 50581)
		FCC Part 15 Subpart B Class A
		CAN/CSA C22.2 UL/CSA 60950-1
		EMC directive (EN 55032 (ClassA), EN 55024)
		KC(KN61000-6-4,KN61000-6-2)
Communication Method		Ethernet （Conforms to the IEEE 802.3）
	Physical Layer	10BASE-T/100BASE-TX（Auto-negotiation・Full Duplex/Half Duplex）
	Data Link Layer	CSMA/CD
	Network Layer	IP・ARP・ICMP
	Transport Layer	TCP・UDP
	Application Layer	HTTP・SNMP(V1,V2c)・RSH・SMTP・NTP POP3・DNS・Socket(PHN・PNS)・DHCP
Interface	USB Port	USB2.0/1.1 TYPE-A 1ch
	Serial Port	RS232C D_SUB_9P(Used for expanding additonal functions)
Power Output		One screw Terminal Block 24VDC±10%, maximum 200mA
Digital Output		Non-voltage contact output; "A" contact (setup can be changed for "B" contact)
Number of Contacts		8
Contact Capacity	Ports 1 to 7	(30V DC @ 3A) inrush current under 5A Minimum (1mA, 5VDC,Reference)
	Port 8	(30V DC @ 3A) inrush current under 78A (TV-5 rating) Minimum (5V DC, 10mA) *
Wire Diameter		Solid Wire:φ0.4-1.2mm（AWG26-16）/Stranded Wire:0.2-1.25mm² (AWG24-16)
Wiring Method		Screwless Terminal Block
Digital Input		Non-voltage Contact
Number of Contacts		8
Transistor Input		NPN Transistor
Contact Capacity		Output "ON" current @ 6mA or less per channel. Terminal OFF condition Voltage: 24V
Wire Diameter		Solid Wire:φ0.4-1.2mm（AWG26-16）/Stranded Wire:0.2-1.25mm² (AWG24-16)
Wiring Method		Screwless Terminal Block

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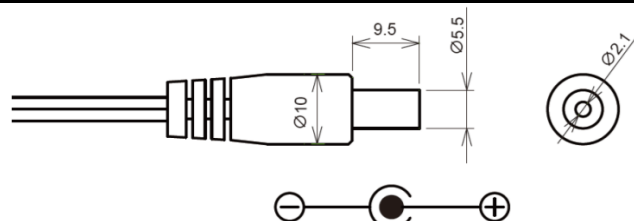| Input Reaction Time	110msec or more
Output Response Time	200msec or less
Display Part	18 green LED (power, status, DO x8 Contacts, DI x8 Contacts)
Operation Part	"Select" Switch, "Reset" Switch, "Clear" Button, "Mode" Switch
Accessory	Rubber Feet
Optional Parts	Server Rack Mounting Bracket (NBM-ANG)
Remarks	Conforms to the CE requirements When connecting a product with a large inrush current, such as a revolving light etc., wire it to output terminal Port 8.

[Fanctional Specifications]

The contact output of this product is controlled by contact input information, or by software commands.Moreover, when abnormalities occur, the NBM can control contact output and command transmissions with it's network monitoring function.
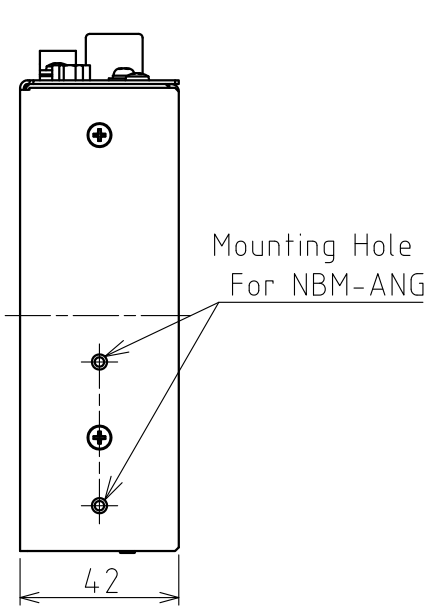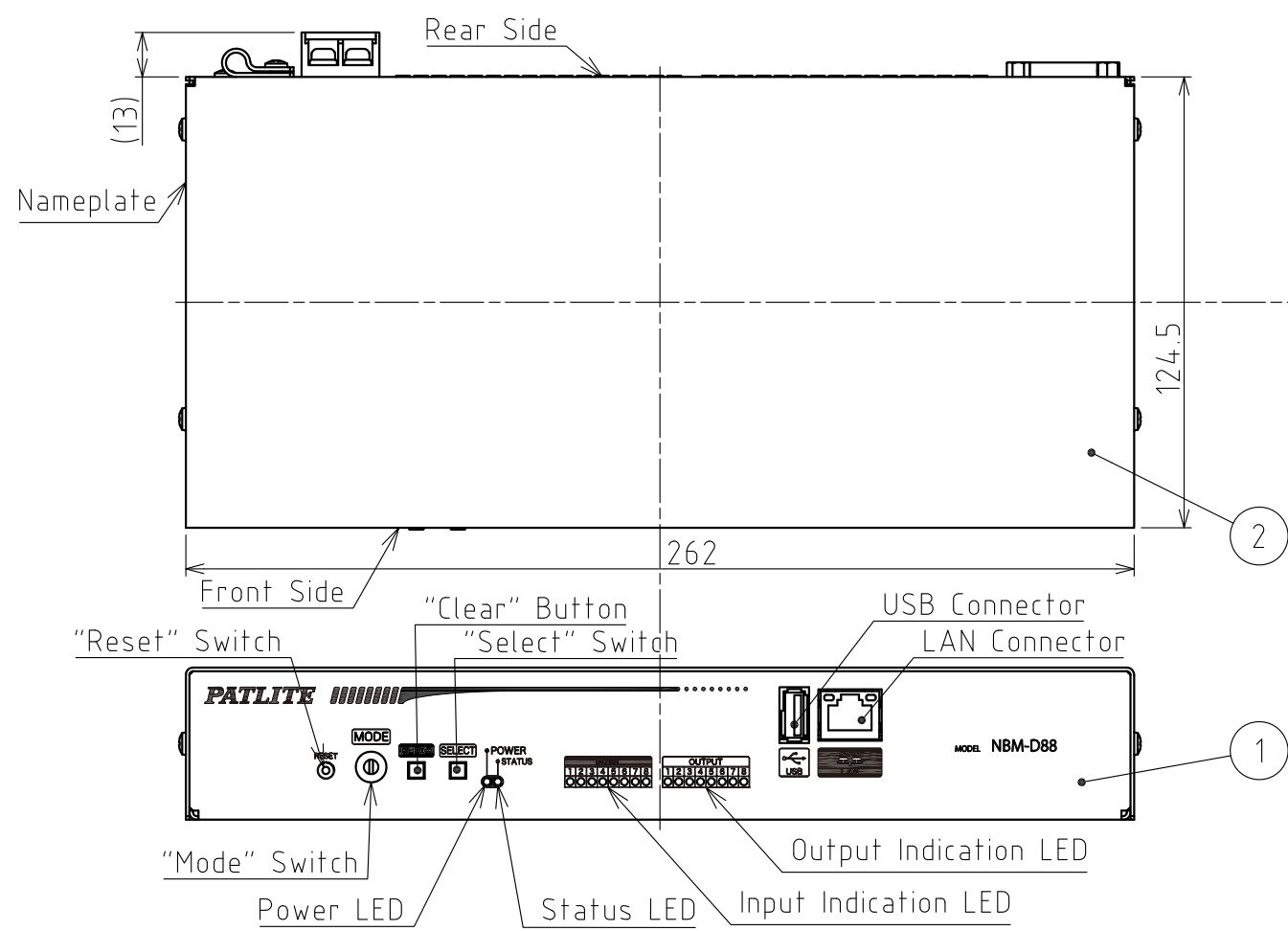
Digital Output	External instruments are connected and the contacts are controlled for ON/OFF outputs.
Digital Input	The status condition of a non-voltage contact input can be detected. When detection occurs, the following operations will be executed: Digital Output ON/OFF, RSH Command Transmission, PNS/PHN Socket Transmission, E-mail Transmission,SNMP TRAP Transmission
"CLEAR" Button	When pressing the "Clear" button, the following actions are executed: Digital output ON/OFF (a default is turned off), E-mail transmission, RSH command transmission,PNS/PHN socket transmission, SNMP TRAP transmission
"Reset" Switch	The product is rebooted.
TRAP Transmission	An SNMP TRAP (V2C) is sent when an event occurs.
TRAP Reception	When an SNMP TRAP is received, the following operations are executed: Digital Output ON/OFF, RSH Command Transmission, PNS/PHN Socket Transmission, E-mail Transmission,SNMP TRAP Transmission
E-mail Transmission	Sends an E-mail when an event occurs. (up to 8 addresses).
RSH Command Transmission	Sends an RSH command when an event occurs.
RSH Command Reception	When an RSH command is received from an external device, it controls the ON/OFF of the digital output and acquires the contact status.
Socket Reception	When receiving a PNS or PHN command, it controls the ON/OFF of the digital output and acquires the contact status.
Socket Transmission	When an event occurs, it sends a PNS or PHN command.
Test Function	The RSH command for checking operation.The Digital Output operates in sequential order.
Ping Monitoring	The PING Command is sent to an external device to check it's connection status.(Max. 24)
Application Monitor	The operation status of a working application to an external device can be checked.
Data Log	A status log and operation log are saved.(Transmission to syslog server / Save to USB memory)
SNMP SET/GET	The digital output can be controled, contact information can be acquired, traps can be sent and received.(MIB file application) (V1, V2C)
Time Correction	Automatically correct time (register and connect to an NTP server) The time correction is reflected on the PC.
"Select" Switch	The operation for each mode can be determined.
Web Setup Tool	The tool necessary for making various settings on the WEB screen.
PNS/PHN Series Control Function	Remote control of NHL Series and PHN series with Socket Communication and PNS/PHN control signal.

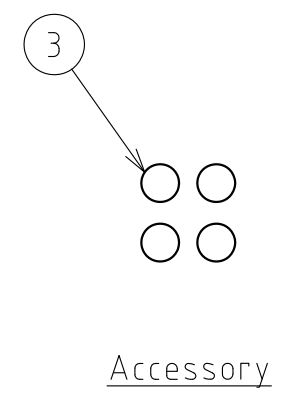|	
Xml Function	Obtain the data for the Input/Output contact status in xml format.
PNS Manager Function	It corresponds to the PNS manager (Network Setup Application).
Initialization Function	=Web Setup Tool= Factory default. Initialization other than Network Setup. = "Mode" Switch = Network Setup initialization. Factory default. Password initialization.
Mode Change	Change to the following mode with the "Mode" Switch. 0. Normal Mode 1. Configuration Download Mode 2. Configuration Upload Mode 3. Network Setting Initialization Mode 4. Factory Default Mode 5. Reserved 6. Firmware Update Mode 7. Password Initialization Mode 8. Reserved 9. Reserved * Initialization : Return to factory default setup.
Configuration Data Setup	Save / write setting information with Web setup tool and USB memory.
"A" Contact/"B" Contact Changeover	The Web Setup Tool can be used to logically set between the "A" contact or "B" contact.
Contact Status Display	The contact status is displayed on the WEB screen.
USB	Log data can be stored onto USB memory (storage place can be changed to internal memory or USB memory). Update firmware onto USB memory Upload/download Configuration data
Firmware Update	Update using the Web Setup Tool Update using a USB memory
Digital Input Condition Setup	Setup the digital input detection method to the following method. AND detection: It detects when specified multiple digital inputs turn ON. Number of Detection Times: Detects when the digital input is turned ON for the specified number of times. Continued Detection Duration: Detects when the digital input continues to be ON for the specified time.

[Recommended AC Adaptor Specifications]

DC Output	Voltage	24V DC ±5%
	Current	0.75A to 1A max.
	Plug Length	9.5mm or more
	Plastic Housing	10mm dia. or less
	Plug Connector Outer Diameter	5.5mm dia.
	Plug Connector Inner Diameter	2.1mm dia.

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Rear Side

(13)

Nameplate

124.5

262

Front Side

42

2

Please use Server Rack Mounting Bracket(NBM-ANG)
to install at Server Rack (19 inches).

Mounting Hole
For NBM-ANG

"Reset" Switch

"Clear" Button
"Select" Switch

USB Connector
LAN Connector

PATLITE

MODE

RESET

SELECT

POWER
STATUS

OUTPUT

MODEL NBM-D88

1

"Mode" Switch

Power LED

Status LED

Input Indication LED

Output Indication LED

(266)

Cable Clamp

RS232C

INPUT

OUTPUT

DC OUT
24V DC 200mA

24V DC

D_SUB_9P

Functional
Earthing

Input Terminal

Output Terminal

DC Jack

Power Output
Terminal

Rear View

3

Accessory

No.番号	Part Name 部品名	Part No. 品目コード	Qty. 数量	Material & Size & Finish 材料 & 寸法 & 処理	Remarks 記事
3	Rubber Feet		4		
2	Cover		1	SECC Offwihte	
1	Case		1	SECC Offwhite	

外観図面
Outer Dimension Drawing

株式会社 パトライト
PATLITE Corporation

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