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SPECIFICATIONS

Product Name: Network Monitor Signal Tower with MP3

Model: NH 🗆 - 🗆 FV2 🗆 - 🗆 🗆 🗆

PATLITE Corporation

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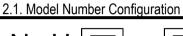
1. General Specifications

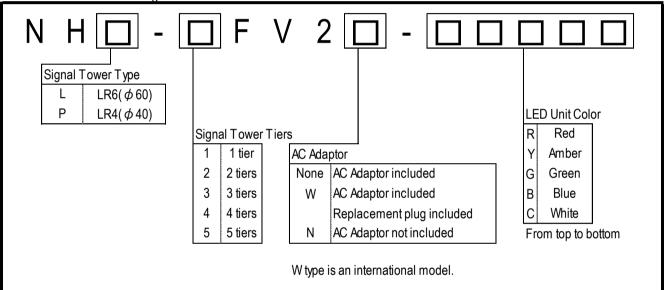
	=	A II II . EE . (6	NUID EENA	
	5 tiers	NHL-5FV2	NHP-5FV2	
	4 tiers	NHL-4FV2	NHP-4FV2	
Model	3 tiers	NHL-3FV2	NHP-3FV2	
	2 tiers	NHL-2FV2	NHP-2FV2	
1 tier		NHL-1FV2	NHP-1FV2	
Rate	ed Vo <u>ltage</u>	24VDC (Main Unit)		
	AC Adaptor	Input: 100VAC - 240VAC (5		
	Voltage Range		age ±10%	
Rated Power	er Main Unit	Standby: 2.2W Maximum: 3.5W	(with AC Adaptor, 100VAC input)	
Consumption	on LED Unit	1.0W ()	per Unit)	
Operating Am	bient Temperature	0°C - +40°C (No E	Dew or Condensation)	
Operating A	Ambient Humidity		Dew or Condensation)	
Storage Amb	pient Temperature	-10°C - +60°C (No	Dew or Condensation)	
Storage Ar	mbient Humidity	20% - +80% RH (No	Dew or Condensation)	
Mounti	ing Location	Indoo	r Only	
Mounti	ng Direction	Upr	ight	
	ction Rating	IP	20	
	n Resistance	More than $10M\Omega$ at $500VDC$ between live p	art and non-current carrying metallic part *1	
VAPUL 1	137.16		between live part and non-current carrying	
Withst	and Voltage	metallic part without		
Mass	5 tiers	1270g	1085g	
(Tolerance		1210g	1050g	
±10%)	3 tiers	1150g	1015g	
(AC Adapto		1090g	980g	
not include		1030g	945g	
	Dimensions	Refer to the Outer Dimension Drawing		
	ressure Level		or more	
Environmental				
Ī	IEnvironmental	Front direction from the center, at 1m.	(1kHz sine wave played back at -6dB)	
			(1kHz sine wave played back at -6dB)	
Audio	Condition	MP3 data of the content and use of the environment	onment, the sound pressure level will change.	
	Condition Line Output	MP3 data of the content and use of the environment 600Ω OdBv (Unbalance)	onment, the sound pressure level will change. ced, Monaural Mini-Jack)	
Commun	Condition Line Output ication Method	MP3 data of the content and use of the environment	conment, the sound pressure level will change. sed, Monaural Mini-Jack) s to the IEEE 802.3)	
Communi	Condition Line Output ication Method (LAN)	MP3 data of the content and use of the environment	comment, the sound pressure level will change. Deed, Monaural Mini-Jack) So to the IEEE 802.3) Sogotiation, Full Duplex / Half Duplex)	
Communi Interface	Condition Line Output ication Method (LAN) USB Port	MP3 data of the content and use of the environment	ced, Monaural Mini-Jack) s to the IEEE 802.3) egotiation, Full Duplex / Half Duplex) ch (For USB Memory)	
Communi Interface External (Condition Line Output ication Method (LAN) USB Port Contact Output	MP3 data of the content and use of the environment	comment, the sound pressure level will change. Deed, Monaural Mini-Jack) So to the IEEE 802.3) Sogotiation, Full Duplex / Half Duplex)	
Communi Interface External (Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts	MP3 data of the content and use of the environment	comment, the sound pressure level will change. sed, Monaural Mini-Jack) s to the IEEE 802.3) segotiation, Full Duplex / Half Duplex) ch (For USB Memory) contact output	
Communi Interface External (Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity	MP3 data of the content and use of the environment	comment, the sound pressure level will change. Sed, Monaural Mini-Jack) Se to the IEEE 802.3) Segotiation, Full Duplex / Half Duplex) Ch (For USB Memory) Contact output 1 (5VDC @ 1mA , Minimum, Reference)	
Communi Interface External (Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity Wire Diameter	MP3 data of the content and use of the environment	comment, the sound pressure level will change. Seed, Monaural Mini-Jack) Se to the IEEE 802.3) Segotiation, Full Duplex / Half Duplex) Ch (For USB Memory) Contact output 1 (5VDC @ 1mA , Minimum, Reference) 10.41 - 0.81mm (AWG26 - 20)	
Interface External (Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity Wire Diameter Wiring Method	MP3 data of the content and use of the environce of the	comment, the sound pressure level will change. Sed, Monaural Mini-Jack) Se to the IEEE 802.3) Segotiation, Full Duplex / Half Duplex) Ch (For USB Memory) Contact output 1 (5VDC @ 1mA , Minimum, Reference) 10.41 - 0.81mm (AWG26 - 20) Command block	
Interface External (Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity Wire Diameter Wiring Method Contact Input	MP3 data of the content and use of the environment	comment, the sound pressure level will change. Sed, Monaural Mini-Jack) Se to the IEEE 802.3) Segotiation, Full Duplex / Half Duplex) Ch (For USB Memory) Contact output 1 (5VDC @ 1mA , Minimum, Reference) 10.41 - 0.81mm (AWG26 - 20) Command block	
Interface External (Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity Wire Diameter Wiring Method Contact Input	MP3 data of the content and use of the environment	comment, the sound pressure level will change. Seed, Monaural Mini-Jack) Se to the IEEE 802.3) Segotiation, Full Duplex / Half Duplex) Ch (For USB Memory) Contact output 1 (5VDC @ 1mA , Minimum, Reference) 10.41 - 0.81mm (AWG26 - 20) Comminal block Comput NPN Transistor	
Interface External (Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity Wire Diameter Wiring Method Contact Input	MP3 data of the content and use of the environce from the environce fro	ced, Monaural Mini-Jack) s to the IEEE 802.3) egotiation, Full Duplex / Half Duplex) contact output 1 (5VDC @ 1mA , Minimum, Reference) 0.41 - 0.81mm (AWG26 - 20) erminal block contact NPN Transistor 4 6mA or less per cannel	
Interface External (Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity Wire Diameter Wiring Method Contact Input Number of Contacts Contact Capacity Contact Capacity Contact Capacity Contact Capacity	MP3 data of the content and use of the environce of the	comment, the sound pressure level will change. Seed, Monaural Mini-Jack) Se to the IEEE 802.3) Segotiation, Full Duplex / Half Duplex) Ch (For USB Memory) Contact output 1 (5VDC @ 1mA , Minimum, Reference) 0.41 - 0.81mm (AWG26 - 20) Comminal block Comput NPN Transistor 4 6mA or less per cannel Contact output 6mA or less per cannel	
Interface External (Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity Wire Diameter Wiring Method Contact Input Number of Contacts Contact Capacity Wire Diameter Wiring Method Contact Contacts Contact Capacity Wire Diameter	MP3 data of the content and use of the environment of the content and use of the environment of the content of	comment, the sound pressure level will change. Seed, Monaural Mini-Jack) Se to the IEEE 802.3) Segotiation, Full Duplex / Half Duplex) Ch (For USB Memory) Contact output 1 (5VDC @ 1mA , Minimum, Reference) 0.41 - 0.81mm (AWG26 - 20) Comminal block Seput NPN Transistor 4 6mA or less per cannel Stion Voltage: 24VDC 0.41 - 0.81mm (AWG26 - 20)	
Communi Interface External (Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity Wire Diameter Wiring Method Contact Input Number of Contacts Contact Capacity Wire Diameter Wiring Method Wire Diameter Wiring Method	MP3 data of the content and use of the environment of the content and use of the environment of the content and use of the environment of the content of th	ced, Monaural Mini-Jack) s to the IEEE 802.3) egotiation, Full Duplex / Half Duplex) contact output 1 (5VDC @ 1mA , Minimum, Reference) 0.41 - 0.81mm (AWG26 - 20) erminal block nput NPN Transistor 4 6mA or less per cannel tion Voltage: 24VDC 0.41 - 0.81mm (AWG26 - 20) erminal block	
Communi Interface External (External (Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity Wire Diameter Wiring Method Contact Input Number of Contacts Contact Capacity Wire Diameter Wiring Method Wire Diameter Wiring Method thing portion	MP3 data of the content and use of the environment of the content and use of the environment of the content of	comment, the sound pressure level will change. Seed, Monaural Mini-Jack) Se to the IEEE 802.3) Segotiation, Full Duplex / Half Duplex) Ch (For USB Memory) Contact output 1 (5VDC @ 1mA , Minimum, Reference) Co.41 - 0.81mm (AWG26 - 20) Comminal block Comput NPN Transistor 4 6mA or less per cannel Contact output 6mB or less p	
Communi Interface External (External (Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity Wire Diameter Wiring Method Contact Input Number of Contacts Contact Capacity Wire Diameter Wiring Method wire Diameter Wiring Method outing portion cessories	MP3 data of the content and use of the environment of the content and use of the environment of the content of	comment, the sound pressure level will change. Seed, Monaural Mini-Jack) Se to the IEEE 802.3) Segotiation, Full Duplex / Half Duplex) Ch (For USB Memory) Contact output 1 (5VDC @ 1mA , Minimum, Reference) 0.41 - 0.81mm (AWG26 - 20) Comminal block Comminal blo	
Communi Interface External (External Opera Acc	Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity Wire Diameter Wiring Method Contact Input Number of Contacts Contact Capacity Wire Diameter Wiring Method Wire Diameter Wiring Method thing portion	MP3 data of the content and use of the environment of the content and use of the environment of the content of	comment, the sound pressure level will change. Seed, Monaural Mini-Jack) Se to the IEEE 802.3) Segotiation, Full Duplex / Half Duplex) Ch (For USB Memory) Contact output 1 (5VDC @ 1mA , Minimum, Reference) 0.41 - 0.81mm (AWG26 - 20) Serminal block Serminal block Contact output 4 6mA or less per cannel Stion Voltage: 24VDC 0.41 - 0.81mm (AWG26 - 20) Serminal block Switch, "Mode" Switch, "Test" Switch	
External Communication Communi	Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity Wire Diameter Wiring Method Contact Input Number of Contacts Contact Capacity Wire Diameter Wiring Method thing portion cessories Option	MP3 data of the content and use of the environce of the content and use of the environce of the environce of the content and use of the environce of the envir	comment, the sound pressure level will change. Seed, Monaural Mini-Jack) Se to the IEEE 802.3) Segotiation, Full Duplex / Half Duplex) Ch (For USB Memory) Contact output 1 (5VDC @ 1mA , Minimum, Reference) 0.41 - 0.81mm (AWG26 - 20) Comminal block Comminal block Comminal block Comminal Service (AWG26 - 20) Comminal block Comminal blo	
External Communication Communi	Condition Line Output ication Method (LAN) USB Port Contact Output Number of Contacts Contact Capacity Wire Diameter Wiring Method Contact Input Number of Contacts Contact Capacity Wire Diameter Wiring Method wire Diameter Wiring Method outing portion cessories	MP3 data of the content and use of the environment of the content and use of the environment of the content of	comment, the sound pressure level will change. Seed, Monaural Mini-Jack) Se to the IEEE 802.3) Segotiation, Full Duplex / Half Duplex) Ch (For USB Memory) Contact output 1 (5VDC @ 1mA , Minimum, Reference) 0.41 - 0.81mm (AWG26 - 20) Comminal block Seput NPN Transistor 4 6mA or less per cannel Stion Voltage: 24VDC 0.41 - 0.81mm (AWG26 - 20) Comminal block Switch, "Mode" Switch, "Test" Switch *2, Installation Manual, Rubber feet (4pcs.)	

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Conformity Standards	RoHS Directive (EN IEC 63000) EMC Directive (EN 55032 (Class A), EN 55024) FCC Part15 Subpart B Class A, ICES-003 Class A UL 1638, UL 464, CSA C22.2 No.205 KC (KN 61000-6-2, KN 61000-6-4) *3 PSE Compliant AC Adaptor
*3 : Only N type and W type CE Marking UL/cUL Listed W type is an international model.	

2. Model





2.2. Model Number List

NHL-1FV2-R	NHL-3FV2-RYG	NHP-1FV2-R	NHP-3FV2-RYG
NHL-1FV2-Y	NHL-3FV2N-RYG	NHP-1FV2-Y	NHP-3FV2N-RYG
NHL-1FV2-G	NHL-3FV2W-RYG	NHP-1FV2-G	NHP-3FV2W-RYG
NHL-2FV2-RY	NHL-4FV2-RYGB	NHP-2FV2-RY	NHP-4FV2-RYGB
NHL-2FV2-RG	NHL-5FV2-RYGBC	NHP-2FV2-RG	NHP-5FV2-RYGBC

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3. Action Specification

3.1. Information (Main Unit)

5.1.	IIIIOII	nation (Main Unit)	
Signal	Towe	r	Lighting pattern for each color LED units,
			such as continuous lighting, flashing pattern 1, and flashing pattern 2
	Flashing pattern 1		ON(500ms), OFF(500ms) (repetition)
	Flasi	hing pattern 2	ON(80ms), OFF(170ms), ON(80ms), OFF(670ms) (repetition)
Sound			Up to 70 types of messages can be played on the main unit speaker and line output.
	Num	ber of messages	Playlist Package: 30 kinds MP3 File: 30 kinds Preset: 10 kinds
		MD2 Formed	Bit Rate 32kbit/s, 64kbit/s (Standard Rate), 128kbit/s
		MP3 Format	Constant Bit Rate (CBR) only
		Preset	Buzzer Sound : 4 kinds Chime Sound : 3 kinds Voice Sound : 3kinds
	Play	back Pattern	One-shot Playback, Repeat Playback, Endless Playback
		One-shot Playback	It is played back once per playback event.
		Danaat Dlaubaalı	It is played back when set up to play a certain number of times per playback event.
		Repeat Playback	Number of playback times : 1 - 254
		Endless Playback	It will play back repeatedly per playback event.
	Play	back Mode	Input Priority Playback, Memory Playback
		Input Priority Playback	If a new playback event occurs, the channel being played back
			will be interrupted and a new channel will play.
		Memory Playback	When playback is ended, the next available channel stored in memory will play.
Buzzer	Buzzer Sound Buzzer pattern 1		Four kinds of buzzer sounds, such as buzzer pattern1, 2, 3, and 4
			ON(250ms), OFF(250ms) (repetition)
		Buzzer pattern 2	ON(500ms), OFF(500ms) (repetition)
		Buzzer pattern 3	ON(200ms), OFF(50ms), ON(200ms), OFF(550ms) (repetition)
		Buzzer pattern 4	ON(continuity)

3.2. External control

External Contact Output External conta		External contact output can be controlled when an event occurs or outputting sound.
Contact Function		Digital Output, BUSY Output
	Digital Output	The digital "A Contact" or "B Contact" output
	Digital Output	for an automatic OFF function of the digital output port can be set up.
	DLICY Output	It controls the relay contact output
BUSY Output		in conjunction with the signal output from the line-out.

3.3. Information (Network)

Mail Transmission		When an event occurs, an e-mail message is transmitted to the registered address.		
	Number of mail address	8		
	Authentication protocol	POP before SMTP, SMTP_AUTH		
	Security	SSL, TLS, none		
SNMP	TRAP Transmission	When an event occurs, TRAP transmission can be executed.		
	Number of transmission	8		
	Version	v2c		
SLMP Write Command		When "Clear operation" occurs, SLMP Write Command can be executed.		
	Number of transmission	4		
	Protocol	SLMP (The same format as the QnA compatible 3E and 4E frame of MC protocol) TCP / UDP		

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4. Function Specification

4.1. Main Unit Control Function

RSH Command		Controllable with RSH Command	
HTTP Command		Controllable with HTTP Command	
Socket Communication		Controllable with PNS Command and PHN Command	
SNMP Command		Controllable with SNMP "set" Command	
Version	1	v1 / v2c	
"Clear" Switch		Clear operation is possible with "Clear" Switch of the main unit.	

		Controllable Action						
Comm	nand	Signal Tower	Sound	Buzzer	Digi-Out	e-mail	TRAP	SLMP
RSH Cor	RSH Command		V	✓	✓	✓ *1	✓ *1	-
HTTP Co	HTTP Command		V	✓	✓	-	-	-
Socket	PNS	V	V	✓	✓	-	-	-
Socker	PHN	△ *2	-	△ *3	-	-	-	-
SNMP Command		~	V	✓	/	-	-	-
"Clear" Switch		V	✓ *4	✓ *5	✓	V	✓	V

^{*1 :} It can be used when e-mail or TRAP is set to "Active" in the RSH Command Configuration.

4.2. External Monitoring Function

Ping M	g Monitoring Function			Network abnormality detection by sending Ping network devices		
	Number of Monitoring			24		
	Monitoring Cycle			1 - 600 seconds		
	Sending Count			The number of times to detect can be set from 1 to 30.		
	Number of Sending			The number of sending Ping by one monitoring can be set from 1 to 3.		
Applica			nitoring Function	External devices abnormality detection by receiving the data from them		
	Num	be	r of Monitoring	4		
			ing Cycle	1 - 600 seconds		
SNMP	TRAF	PR	eception Function	TRAP Reception detection		
	Vers	ion		v1 / v2c		
	Num	be	r of Reception	64		
	varia	ble	e-bindings	2 OID per 1 TRAP Reception		
			Detectable Type	INTEGER		
			• • • • • • • • • • • • • • • • • • • •	OCTET STRING (String data, Binary data)		
			ed Equipment	For SNMP Supported equipment, with the SNMP command,		
Monitor	r Fun	ctic	n	their status can be acquisitioned periodically and monitored.		
	Vers	ion		v1		
			ing Cycle	1 - 60 seconds		
	Dete	ctio	on method	Condition Agreement Detection : 20 Change Detection : 5		
		Co	ondition Agreement	Detection that the acquired value meets the condition		
			Detectable Type	INTEGER		
			Detectable Type	OCTET STRING (String data, Binary data)		
		Cł	nange Detection	Detection that the acquired value has changed		
			Detectable Type	INTEGER		

^{*2 :} Signal Tower "Red", "Amber"and "Green", and Flashing pattern 1

^{*3:} Buzzer pattern1 and Buzzer pattern 2

^{*4 :} In memory playback mode, you can proceed to the next message.

^{*5 :} It is possible to stop only the buzzer while maintaining the state of Signal Tower.

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SLMP Read Command	Detects the state change of the device information of the PLC		
Number of Monitoring	16		
Transmission Interval	10ms / 50ms / 100ms		
Protocol	SLMP (The same format as the QnA compatible 3E and 4E frame of MC protocol)		
FIOLOCOI	TCP / UDP		
External Contact Input	It monitors the state change of external contact input.		
Monitor Function			
Digital Logic Setting	A Contact, B Contact		
Detection method	Status Change Detection, Status Agreement Detection		
Status Change	Detection of change from OFF to ON or change from ON to OFF		
Ctatus Agraement	Detecting the input for a certain period of time		
Status Agreement	Detection time: 1 - 3600 seconds Number of Detection: 4		
	Detection time: 1 - 3000 seconds Number of Detection: 4		

	Executable action at detection						
Monitoring	Signal Tower	Sound	Buzzer	Digi-Out	e-mail	TRAP	SLMP
Ping Monitoring	V	V	V	/	✓	V	-
Application Monitoring	~	/	V	~	/	/	-
TRAP Reception	V	V	V	~	V	V	-
SNMP Supported	V	V	V	~	V	V	-
SLMP Command	V	V	V	~	V	V	-
External Contact Input	V	✓	V	/	✓	/	-

4.3. Main Unit Status Acquisition Function

RSH Command	The state of the main body can be acquired by the status acquisition command.		
Socket Communication	Status acquisition available with PNS Command and PHN Command		
SNMP Command	Status acquisition available with SNMP "get" Command		
Version	v1 / v2c		
HTTP Communication	By executing CGI, the state of the main body can be acquired in XML data format.		
Web browser	Download main unit status and event log with web browser		
Web blowsel	Main Unit Status: XML format file Event Log: text format file		
USB Memory	Event log (text file) can be downloaded to USB memory		

			P	cquisition da	ta	
Comn	nand	Signal Tower	Sound	Buzzer	Ex-Input	Ex-Output
RSH Co	RSH Command		✓	/	✓	✓
Socket	PNS	V	-	/	-	-
Socket	PHN	✓ *1	-	✓ *2	-	-
SNMP Command		~	V	V	'	/
XML for	mat file	V	V	~	'	~

^{*1 :} Signal Tower "Red", "Amber"and "Green",and Flashing pattern 1
*2 : Buzzer pattern 1 and Buzzer pattern 2

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4.4. Main Unit Setting Function

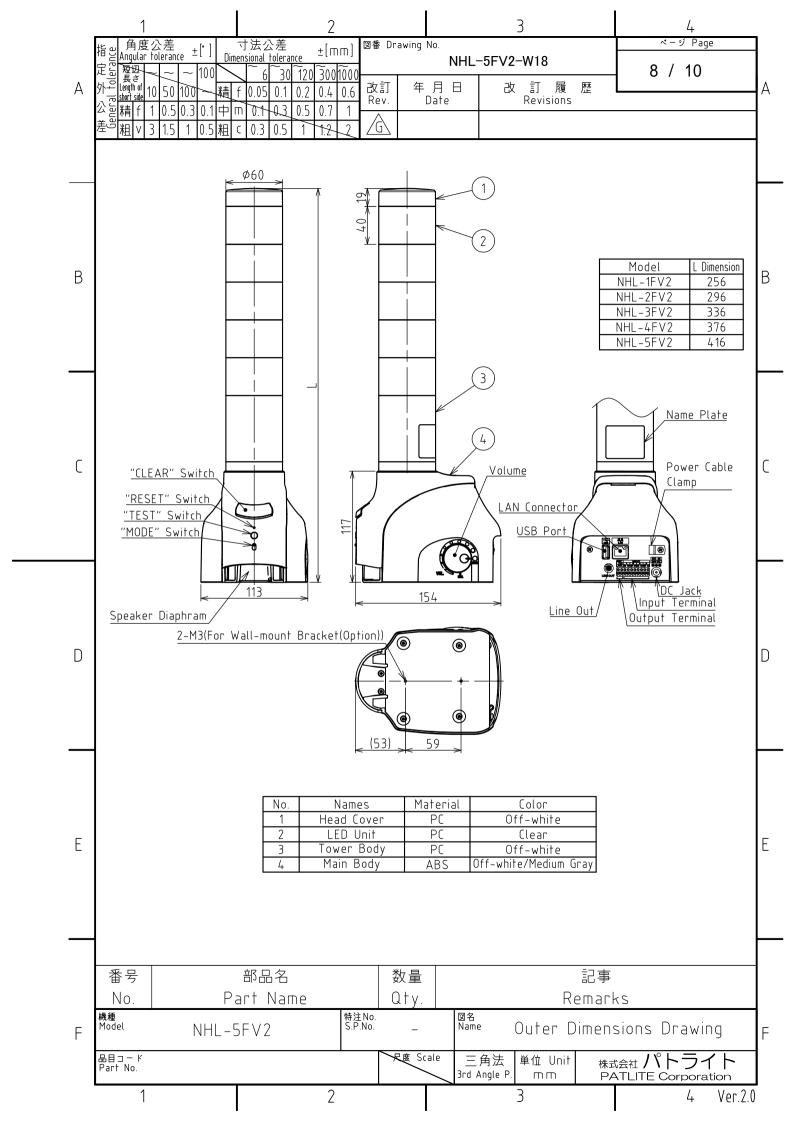
Schedule Function	The time period for disabling the notification operation can be set.			
Suspended operations	"Signal Tower", "Sound and Buzzer", "Digital Output" ,"Trap Transmission"			
Time period of the schedule	"24 hours" or "Three time periods per day"			
Time Correction Function	The internal clock in this product can communicate with an NTP server			
Time Correction Function	to automatically correct the time.			
Automatic Network Setting	Network setting in this product can communicate with an DHCP server			
Adiomatic Network Setting	to automatically set.			
Master Volume Setting	Mstar Volume of Buzzer and sound can be set			
Standard Action Setting	This product can set lighting color of the Signal Tower after clear operation is executed			
Self-test Function	Self test of Signal Tower and buzzer is possible			
Self-lest i dilction	with test switch of the main body and RSH command.			
Config Setting	Various settings of the main body can be read and written as setting file.			
Main Unit Setting	Various settings of the main body can be done with a web browser.			
USB memory support	By using the USB memory, the following items can be executed by the main body only.			
Config File	Various settings of the main unit can be read and written as a config file.			
Playlist Package	You can set the playlist package created with PATLITE Playlist Editor 2			
Event Log	It is possible to acquire an event log that records the operation history of the main unit.			
Firmware update	It is possible to update firmware.			
Setting Supported languages	Japanese, English			

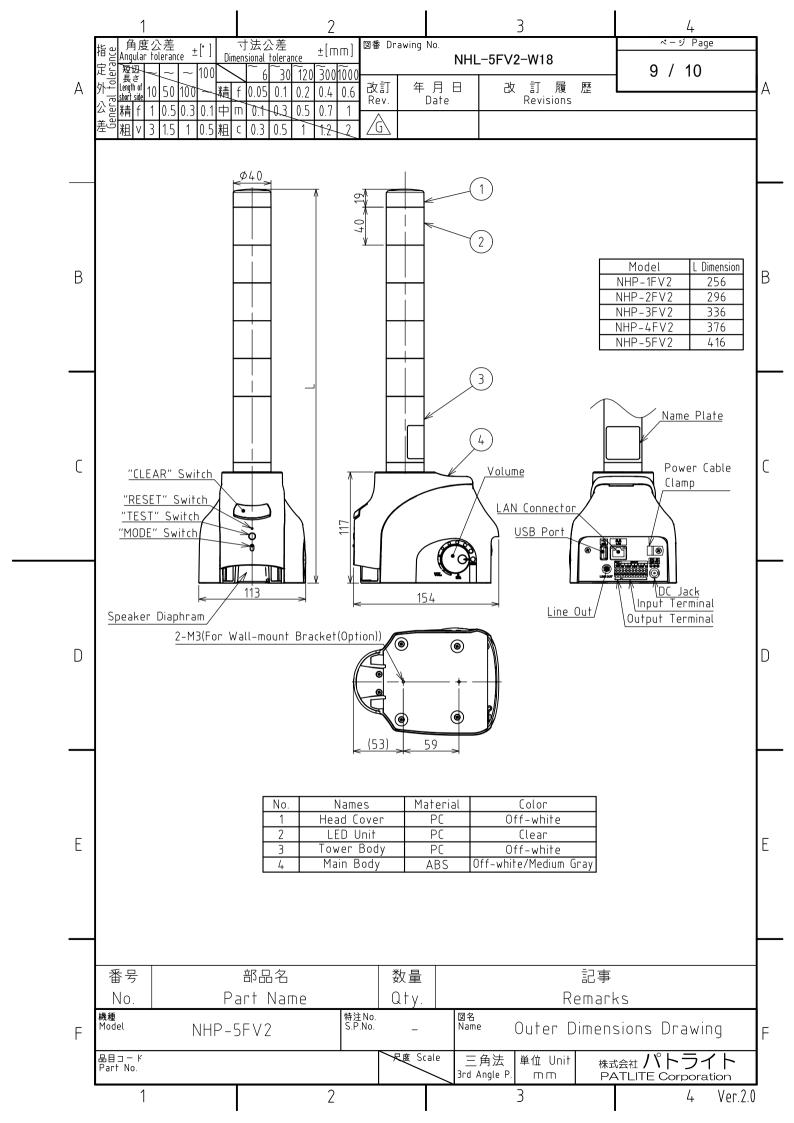
4.5. Cloud Function

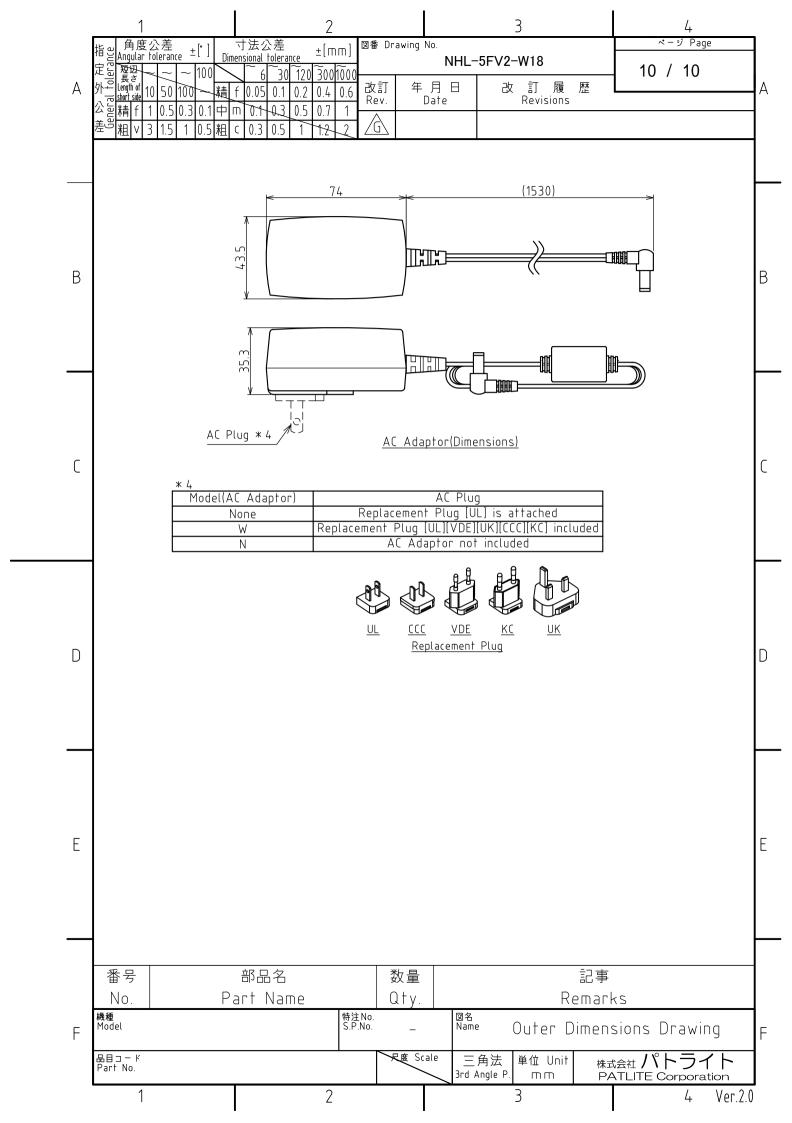
Supported Cloud Platform		l Dlatform	Microsoft Azure *1			
Suppoi	Supported Cloud Platform		Amazon Web Services (AWS) *2			
	Azure	Connection Settings	Azure IoT Central/DPS,Azure IoT Hub			
		Built-in features	Device Twin、Direct Method、Device-to-cloud Message、			
		Dulit-III leatures	Cloud-to-device Message			
	AWS	Connection Settings	AWS IoT Core			
	AWS	Built-in features	Device Shadow, MQTT client			
	Main Unit Control		Signal Tower,Sound,Buzzer,Digi-Out			
Main Unit Status Acquisition		atus Acquisition	Signal Tower,Sound,Buzzer,Digi-Out			
Main Unit Status Transmission			Signal Tower,Sound,Buzzer,"Clear" switch,External Contact Input,Digi-Out			
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