SPECIFICATIONS

Product Name: Network Monitor Signal Tower

Model: NH□-□FB2□-□□□□□

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1. General Specifications

Model	5 tiers	NHL-5FB2	NHP-5FB2
	4 tiers	NHL-4FB2	NHP-4FB2
	3 tiers	NHL-3FB2	NHP-3FB2
	2 tiers	NHL-2FB2	NHP-2FB2
	1 tier	NHL-1FB2	NHP-1FB2
Rated Voltage		24VDC (Main Unit)	
	AC Adaptor	Input: 100VAC - 240VAC (50/60Hz) Output: 24VDC	
Operating Voltage Range		Rated Voltage ±10%	
Rated Power Consumption	Main Unit	Standby: 2.0W Maximum: 4.0W (with AC Adaptor, 100VAC input)	
	LED Unit	1.0W (per Unit)	
Operating Ambient Temperature		0℃ - +40℃ (No Dew or Condensation)	
Operating Ambient Humidity		20% - +80% RH (No Dew or Condensation)	
Storage Ambient Temperature		-10℃ - +60℃ (No Dew or Condensation)	
Storage Ambient Humidity		20% - +80% RH (No Dew or Condensation)	
Mounting Location		Indoor Only	
Mounting Direction		Upright	
Protection Rating		IP 20	
Insulation Resistance		More than 10MΩ at 500VDC between live part and non-current carrying metallic part *1	
Withstand Voltage		1500VAC applied for 1min (10mA or less) between live part and non-current carrying metallic part without breaking insulation *1	
Mass (Tolerance ±10%) (AC Adaptor not include)	5 tiers	900g	715g
	4 tiers	840g	680g
	3 tiers	780g	645g
	2 tiers	720g	610g
	1 tier	660g	575g
Outer Dimensions		Refer to the Outer Dimension Drawing	
Sound Pressure Level		High: 80dB or more Low: 70dB or less (at 25℃)	
	Environmental Condition	Front direction from the center, at 1m, with 'A' weighting	
Communication Method (LAN)		Ethernet (Conforms to the IEEE 802.3) 10BASE-T / 100BASE-TX (Auto negotiation, Full Duplex / Half Duplex)	
Operating portion		"Volume" Switch, "Reset" Switch, "Clear" Switch, "Test" Switch	
Accessories		AC Adaptor *1, Installation Manual, Rubber feet (4 pcs.), Adhesive seal, Support Base, Screw (3 pcs.)	
Option		Tint Film (NHL-TF, NHP-TF), Wall Bracket (NH-WST), Partition Mount Bracket (NH-PST)	
Conformity Standards		RoHS Directive (EN IEC 63000) EMC Directive (EN 55032, EN55035) FCC Part15 Subpart B Class B, ICES-003 Class B PSE Compliant AC Adaptor	
Remark		*1 : N type excluded ・Conforms to the CE Requirements ・Conforms to the UKCA Requirements 生産終了 Production end	

2. Model

2.1. Model Number Configuration

N H □ - □ F B 2 □ - □ □ □ □ □

Signal Tower Type

L	LR6(φ60)
P	LR4(φ40)

Signal Tower Tiers

1	1 tier
2	2 tiers
3	3 tiers
4	4 tiers
5	5 tiers

AC Adaptor

None	AC Adaptor included
N	AC Adaptor not included

LED Unit Color

R	Red
Y	Amber
G	Green
B	Blue
C	White

From top to bottom

2.2. Model Number List

NHL-1FB2-R	NHL-3FB2-RYG	NHP-1FB2-R	NHP-3FB2-RYG
NHL-1FB2-Y	NHL-3FB2N-RYG	NHP-1FB2-Y	NHP-3FB2N-RYG
NHL-1FB2-G	NHL-4FB2-RYGB	NHP-1FB2-G	NHP-4FB2-RYGB
NHL-2FB2-RY	NHL-5FB2-RYGBC	NHP-2FB2-RY	NHP-5FB2-RYGBC
NHL-2FB2-RG		NHP-2FB2-RG	

3. Action Specification

3.1. Information (Main Unit)

Signal Tower		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)
	Flashing pattern 2	ON(80ms), OFF(170ms), ON(80ms), OFF(670ms) (repetition)
Buzzer		Four kinds of buzzer sounds, such as buzzer pattern1, 2, 3, and 4
	Buzzer pattern 1	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. 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

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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

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	v1 / v2c
"Clear" Switch		Clear operation is possible with "Clear" Switch of the main unit.

		Controllable Action				
Command		Signal Tower	Buzzer	e-mail	TRAP	SLMP
RSH Command		✔	✔	✔ *1	✔ *1	-
HTTP Command		✔	✔	-	-	-
Socket	PNS	✔	✔	-	-	-
	PHN	△ *2	△ *3	-	-	-
SNMP Command		✔	✔	-	-	-
"Clear" Switch		✔	✔ *4	✔	✔	✔

*1 : It can be used when e-mail or TRAP is set to "Active" in the RSH Command Configuration.
*2 : Signal Tower "Red", "Amber"and "Green",and Flashing pattern 1
*3 : Buzzer pattern1 and Buzzer pattern 2
*4 : It is possible to stop only the buzzer while maintaining the state of Signal Tower.

4.2. External Monitoring Function

Ping Monitoring Function		Network abnormality detection by sending Ping network devices
	Number of Monitoring	24
	Monitoring Cycle	60 seconds (Fixed) : 12 Devices 1 - 600 seconds (Variable) : 12 Devices
	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. 1 (Fixed) : 12 Devices 1 - 3 (Variable) : 12 Devices
Application Monitoring Function		External devices abnormality detection by receiving the data from them
	Number of Monitoring	4
	Monitoring Cycle	1 - 600 seconds
SNMP TRAP Reception Function		TRAP Reception detection
	Version	v1 / v2c
	Number of Reception	64
	variable-bindings	2 OID per 1 TRAP Reception
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) TCP / UDP

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Monitoring	Executable action at detection				
	Signal Tower	Buzzer	e-mail	TRAP	SLMP
Ping Monitoring	✔	✔	✔	✔	-
Application Monitoring	✔	✔	✔	✔	-
TRAP Reception	✔	✔	✔	✔	-
SLMP Read Command	✔	✔	✔	✔	-

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 Main Unit Status : XML format file Event Log : text format file

Command		Acquisition data	
		Signal Tower	Buzzer
RSH Command		✔	✔
Socket	PNS	✔	✔
	PHN	✔ *1	✔ *2
SNMP Command		✔	✔
XML format file		✔	✔

*1 : Signal Tower "Red", "Amber"and "Green",and Flashing pattern 1

*2 : Buzzer pattern 1 and Buzzer pattern 2

4.4. Main Unit Setting Function

Time Correction Function	The internal clock in this product can communicate with an NTP server to automatically correct the time.
Automatic Network Setting	Network setting in this product can communicate with an DHCP server to automatically 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 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.
Setting Supported languages	Japanese, English, Traditional Chinese

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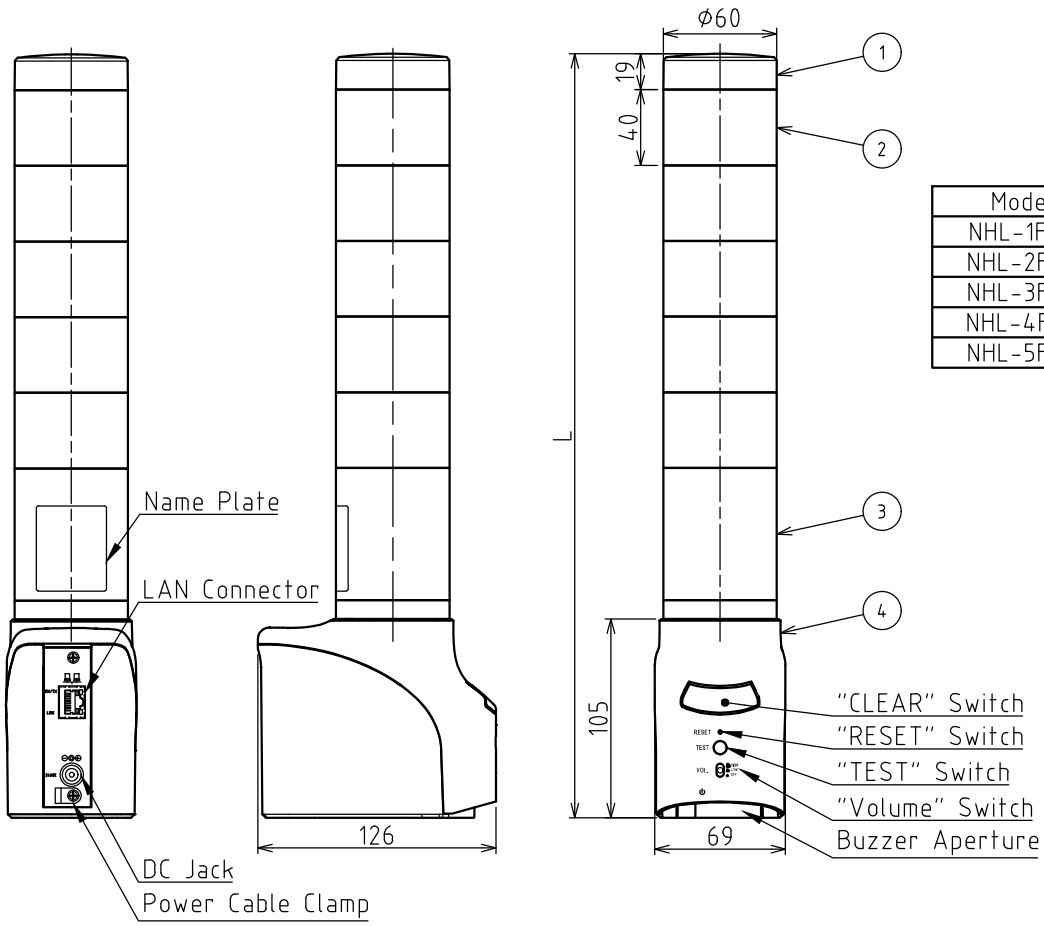
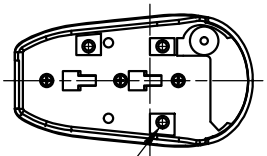
指定外公差 General tolerance	角度公差 Angular tolerance ±[°]					寸法公差 Dimensional tolerance ±[mm]						
	短辺長さ Length of short side		～	～	～			～	～	～	～	～
			10	50	100	100～			6	30	120	300	1000
	精	f	1	0.5	0.3	0.1	精	f	0.05	0.1	0.2	0.4	0.6
	精	f	1	0.5	0.3	0.1	中	m	0.1	0.3	0.5	0.7	1
	粗	v	3	1.5	1	0.5	粗	c	0.3	0.5	1	1.2	2

図番 Drawing No.	改訂 Rev.	ページ Page
NHL-5FB2-W18	F	6/8



Model	L Dimension
NHL-1FB2	244
NHL-2FB2	284
NHL-3FB2	324
NHL-4FB2	364
NHL-5FB2	404



No.	Names	Material	Color
1	Head Cover	PC	Off-white
2	LED Unit	PC	Clear
3	Tower Body	PC	Off-white
4	Main Body	ABS	Off-white/Medium Gray

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機種 Model	NHL-5FB2	特注No. S.P.No.	-	図名 Name	Outer Dimensions Drawing
品目コード Part No.		尺度 Scale		三角法 3rd Angle P.	単位 Unit mm

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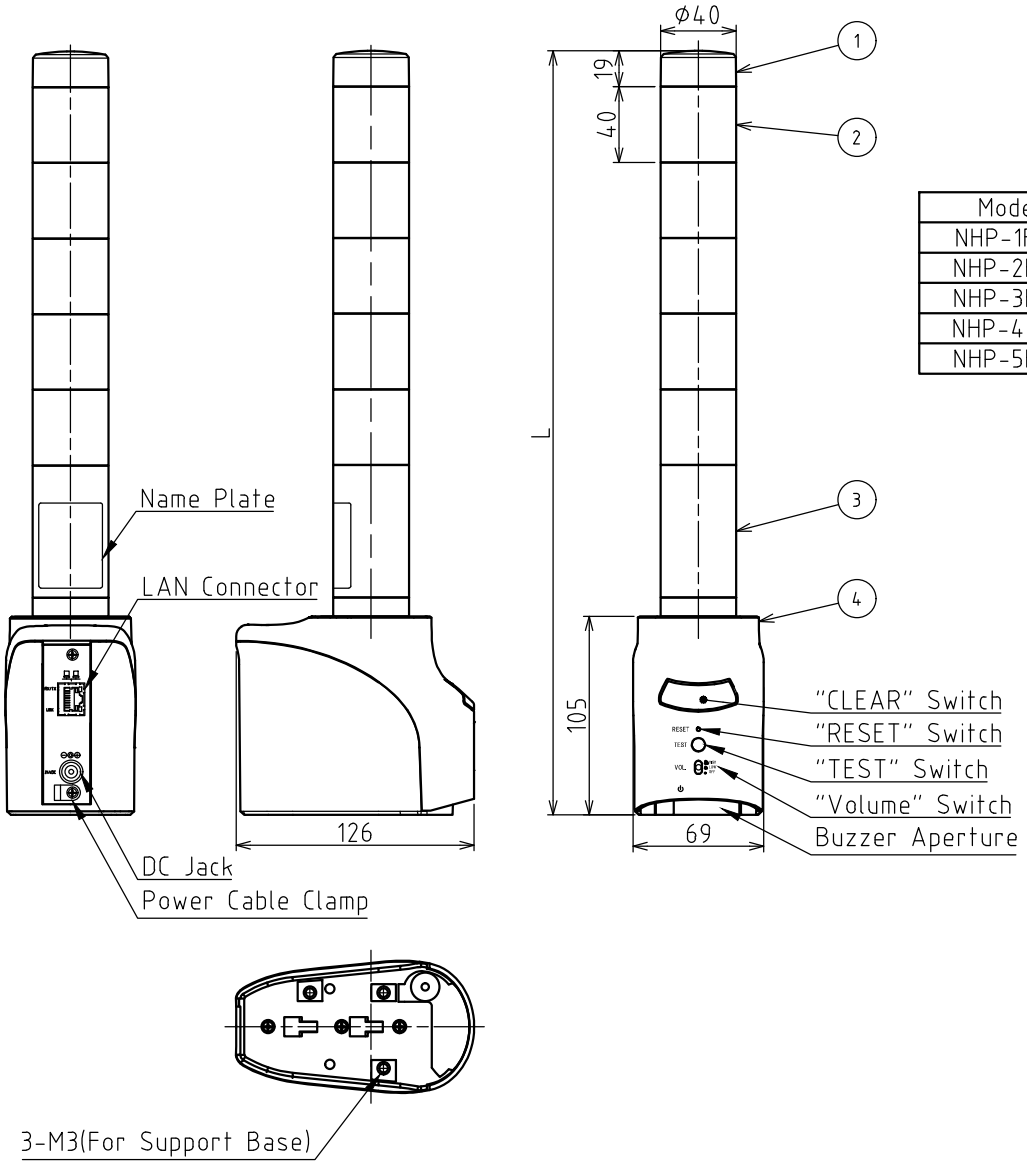
指定外公差 General tolerance	角度公差 Angular tolerance ±[°]					寸法公差 Dimensional tolerance ±[mm]						
	短辺長さ Length of short side		～ 10	～ 50	～ 100	100 ～			～ 6	～ 30	～ 120	～ 300	～ 1000
	精	f	1	0.5	0.3	0.1	精	f	0.05	0.1	0.2	0.4	0.6
	粗	v	3	1.5	1	0.5	中	m	0.1	0.3	0.5	0.7	1
							粗	c	0.3	0.5	1	1.2	2

図番 Drawing No.	改訂 Rev.	ページ Page
NHL-5FB2-W18	F	7/8



Model	L Dimension
NHP-1FB2	244
NHP-2FB2	284
NHP-3FB2	324
NHP-4FB2	364
NHP-5FB2	404

No.	Names	Material	Color
1	Head Cover	PC	Off-white
2	LED Unit	PC	Clear
3	Tower Body	PC	Off-white
4	Main Body	ABS	Off-white/Medium Gray

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Production end

機種 Model	NHP-5FB2	特注No. S.P.No.	-	図名 Name	Outer Dimensions Drawing
品目コード Part No.		尺度 Scale		三角法 3rd Angle P.	単位 Unit mm

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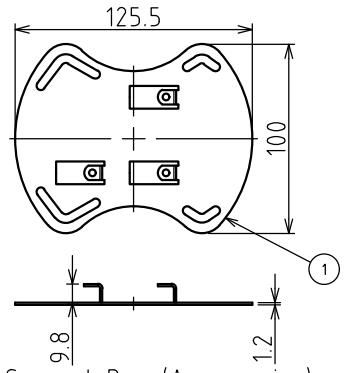
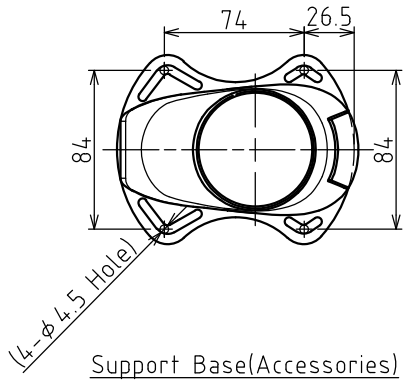
指定外公差 General tolerance	角度公差 Angular tolerance ±[°]					寸法公差 Dimensional tolerance ±[mm]						
	短辺長さ Length of short side		～ 10	～ 50	～ 100	100 ～			～ 6	～ 30	～ 120	～ 300	～ 1000
	精	f	1	0.5	0.3	0.1	精	f	0.05	0.1	0.2	0.4	0.6
	精	f	1	0.5	0.3	0.1	中	m	0.1	0.3	0.5	0.7	1
	粗	v	3	1.5	1	0.5	粗	c	0.3	0.5	1	1.2	2

図番 Drawing No.	改訂 Rev.	ページ Page
NHL-5FB2-W18	F	8/8

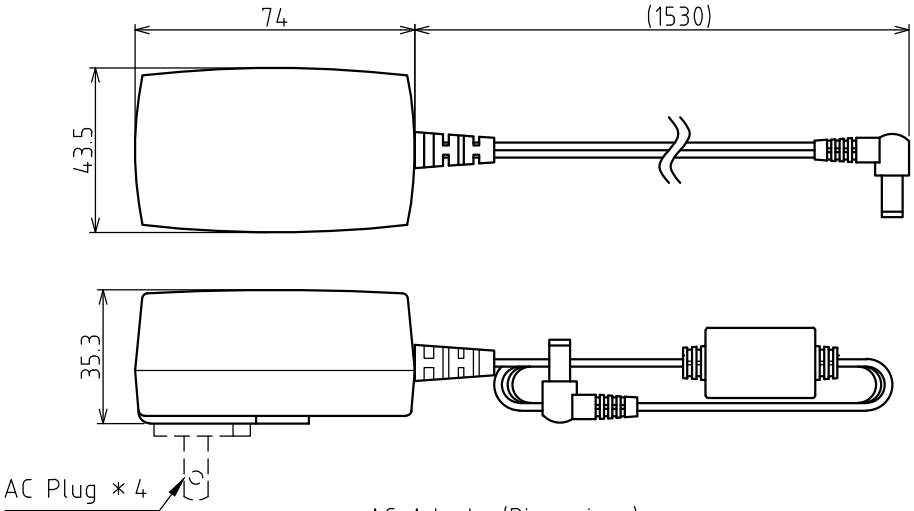


Support Base(Accessories)
Outer Dimensions



Support Base(Accessories)
Mounting Reference Diagram

No.	Part Name	Material	Color
1	Support Base	SECC	Off-white Paint



AC Adaptor(Dimensions)

＊4

Model(AC Adaptor)	AC Plug
None	Replacement Plug [UL] is attached
N	AC Adaptor not included

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機種 Model	特注No. S.P.No.	図名 Name	Outer Dimensions Drawing
品目コード Part No.	尺度 Scale	三角法 3rd Angle P. / 単位 Unit mm	株式会社 パトライト PATLITE Corporation

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