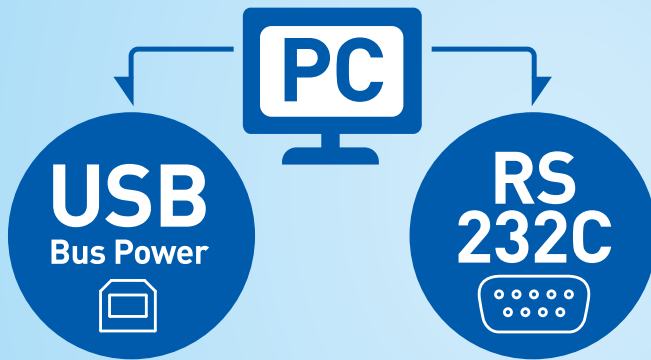


2-Way Connection



Serial
↓
Relay

Interface Converter
PHC-D08

- USB Bus Power
- RS 232C
- DC24V Power Supply Output



*Only N type is UL and CE certified.



Serial
↓
Signal Tower

Interface Converter
PHE-3FB2

- USB Bus Power
- RS 232C
- Signal Tower Φ40
- Alarm 4 Sounds
- Output 80dB
- Flashing Pattern 2



*Only N type is UL and CE certified.



Light & Sound

File download

You can download the following from our homepage.

User's Manual

USB Driver Installation Manual

USB Driver

* For this product, a software program which creates the data output from the USB/RS-232C port of a personal computer is required from the user.

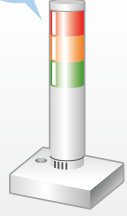
Easy to control from a personal computer.
Information is given intelligibly with light and sound.

USB Connections **PHE** **PHC**



Various Alarm Sounds **PHE**

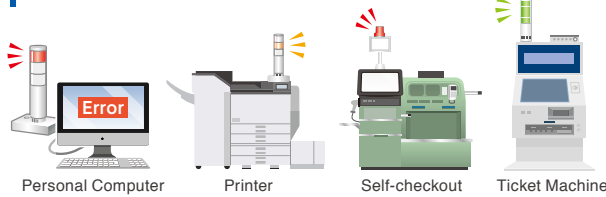
Easily adjustable slide-switch volume.
Four internal alarm sounds



Sound can also be transmitted. **PHE**

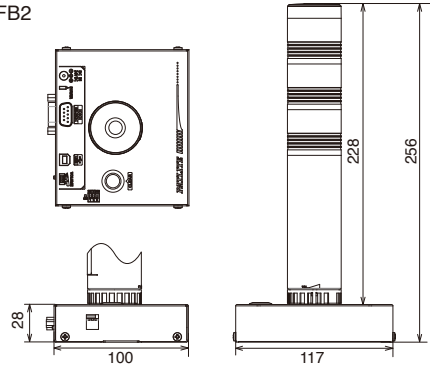


Application Example **PHE** **PHC**

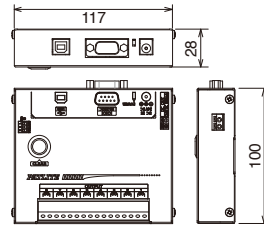


Dimensions (Unit: mm)

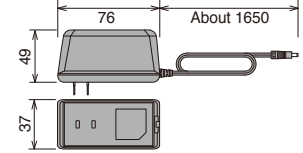
■ PHE-3FB2



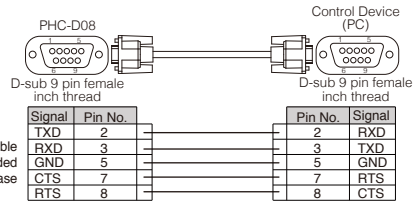
■ PHC-D08



■ AC Adaptor included (except for N Type)



■ RS-232C Port Wiring



* The RS-232C straight cable for wiring is not included with this product. Please purchase separately.

Communication Specifications

* Be sure to download and read the detailed operation manual which can be found at our homepage.

■ Communication Data Format

	Header	ID	Command	Data		End Code
				PHE	PHC	
Send Data	ASCII Code (HEX Code)	@ [40H]	?? [3FH 3FH]	Refer to the command list	By command	[21H]
Byte Count	1Byte	2Byte	1Byte	0~6 Byte	0~8 Byte	1Byte

■ Command List

Command	Number of Data Bytes		Function	
	PHE	PHC	PHE	PHC
1 [31H]	2Byte		Turns on specified Signal Tower light and sound buzzer.	Turn ON Specified Output Terminal Block
0 [30H]	2Byte		Turns off specified Signal Tower light and stop buzzer.	Turn OFF Specified Output Terminal Block
7 [3FH]	2Byte		Set ID for this product.	
S [53H]	6Byte	8Byte	Control Signal Tower and buzzer operation.	Control Specified Output Terminal Block
G [47H]	0Byte		Acquire Signal Tower and buzzer conditions.	Obtain Output Terminal Block condition
C [43H]	0Byte		Turn off Signal Tower light and stop buzzer.	Turn all Output Terminal Block OFF
M [4DH]	0Byte		Obtain information on this product.	

- For PHE
 - A "1" and "0" Command has compatibility with the PC Controlled Signal Tower PHE-3FBE1.
 - Command "S" can be used to control flashing pattern 2 of the Signal Tower and buzzer patterns 3 and 4.
 - The communication protocol can also be used with the Model PHU-3.
- For PHC
 - A "1" and "0" Command has compatibility with the PC Output Relay Unit, PHC-100A.
 - Command "S" can simultaneously control an output terminal to turn "ON" or "OFF."

■ Transmission Example

In this example, the Signal Tower red shall flash pattern 1, amber will light up, and buzzer pattern 2 shall sound.

Send Data						
Header	ID	Command	Data			End code
@ [40H]	? [3FH]	? [3FH]	[31H]	[33H]	[32H]	[21H]
			0011011001100110	0110	0101	

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
 Green Unit Flashing Pattern 1
 Amber Unit Flashing Pattern 1
 Red Unit Flashing Pattern 1
 Buzzer Pattern 2
 Red Unit Lighting
 Amber Unit Lighting
 Green Unit Lighting
 Buzzer Pattern 1

How to Order

PHE-3FB2 -RYG

AC Adaptor
 Blank: AC Adaptor included
 N: AC Adaptor not included

PHC-D08

AC Adaptor
 Blank: AC Adaptor included
 N: AC Adaptor not included

Specifications

Model	PHE-3FB2 PHE-3FB2N(AC Adaptor not included)	PHC-D08 PHC-D08N(AC Adaptor not included)
Rated Voltage	Main Unit 24VDC (Main Unit) 5VDC (USB Bus Power) AC Adaptor 24VDC (Main Unit) 5VDC (USB Bus Power)	90VAC - 264VAC (AC Adaptor)
Operating Voltage Range	Standby 1.2W (100VAC) 0.4W (100VAC) Maximum 4.1W (100VAC) 16W (100VAC)	
Rated Power Consumption		
Operating Ambient Temperature	0°C to +40°C	
Operating Ambient Humidity	20% to 85% RH (No Dew or Condensation)	
Mounting Location and Direction	Indoor, Upright	
Protection Rating	IP20	
Mass	515g (±10%)	370g (±10%)
Interface	USB Port USB 2.0 Conformity (Bus-powered) Standard Type B (Female) Serial Port RS-232C Conformity D-Sub 9 pin (Male)	
Luminous Intensity *1	Red, Amber, Green Clear Lens	
Sound Pressure Level	80dB or more (1m from the buzzer)	
External Contact Output	Number of Contacts 8 Contact Specifications Non-Voltage Contact (Normally Open Contact) Rated Voltage and Current 30VDC/3A	
The power supply output terminal *2	Rated Power Output	24VDC/500mA or less
Accessories	AC Adaptor (except for N Type), Installation Manual, Rubber Feet	
Supported OS *3	Windows 7(32/64bit), Windows 8(32/64bit), Windows 8.1(32/64bit), Windows 10 (32/64bit), Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2	

*1 The Signal Tower may be dark when being operated by USB bus power. *2 The power supply output terminal cannot be used without an AC Adaptor connected. Be sure to connect an AC Adaptor when using the power supply output terminal. *3 "Windows", and the Microsoft Corporation are registered trademarks of the Microsoft Corporation of America and other countries.

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CAUTION

To ensure correct use of these products, read the "Instruction Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.



PATLITE ECO PROJECT

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<http://www.patlite.com>

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