

B&S Media. Co., Ltd.

# Personal Response System the Terminal Unit User's Manual

CE2200

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## Start

- A-class Device: This device is for business use and registered Electromagnetic Waves Conformance. So seller or user take notice of it. If you sell or buy wrongly, exchange it for thing for home use.

## Device

This is a device which transmits and receives data by 2.4GHz GFSK RF Frequency.

Transmits and receives data by 2.4GHz GFSK RF Frequency with PRS-1000D Receiver

Front



1. Screen
2. Yes Input Key
3. No Input Key
4. DirectionKey
5. Enter/Attendance Input Key
6. Tx/Blank Input Key
7. Power Key
8. Kor./Eng./Num./Symbol Input Key
9. Complex Fucntion Input Key
10. Cancel/Delete Input Key

Bottom



1. USB Charge Port

## The Basic

### ***Power on***

Press Power Key for more than 1 sec.

### ***Power off***

Press Power Key for more than 1 sec.

### ***Sleep mode***

If there is no key input for approximately 30 seconds, light automatically turns off.

At this point, if you press power key again in short, light turns on.

## Server Connection

### ***Connecting***

Once power turns on, it automatically searches server.

After server permits certification of Tool (user), connection is completed.

### ***Re- Connecting***

Enter main menu screen and Select menu of connection

If you press SHIFT key (complex function key), it starts connecting with server again.

### ***Cutting off Connection***

If it receive specific signal after lecture ends, connecting ends up.

Or, if you turn Tool power off, connecting ends up.

## Attendance

- 1) Press 'Attendance' key on keyboard.
- 2) Selected answer appears on screen of Tool.
- 3) Once press 'SEND' key in short, transmission starts.
- 4) Once transmission is completed, 'transmission success' appears.
- 5) The sentence disappears and it switches waiting screen again if press 'CLEAR' key.

## Receiving question

If teacher sends a question, the Terminal Unit automatically shows the contents on the screen.

At this moment, teacher has to input an answer according to type of a question.

Types of a question are divided into Yes/No Question, Multiple Choice Question, Short Answer or Essay Question.

- Yes/No: Only Yes/No keys are possible to input.
- Multiple Choice Question: Only Number Keys are possible to input.
- Short Answer or Essay Question: It is possible to enter Short Answer or Essay Question input screen.

## Answering

### Yes/No

- 1) Press 'T' (Yes) or 'F' (No) Key of keyboard.
- 2) Selected answer is shown on the screen of the Terminal Unit.
- 3) Transmission starts if press 'SEND' key in short.
- 4) 'Transmission Success' is shown on the screen after Transmission is completed.
- 5) If press 'CLEAR' key, phrase disappears and it changes standby mode.

### Multiple Choice Question

- 1) Press one key of Number Keys.
- 2) Selected answer is shown on the screen of the Terminal Unit.
- 3) Transmission starts if press 'SEND' key in short.
- 4) 'Transmission Success' is shown on the screen after Transmission is completed.
- 5) 'If press 'CLEAR' key, phrase disappears and it changes standby mode.

### Short Answer or Essay Question

- 1) If standby screen or type of question is Short Answer or Essay Question, press 'SHIFT' key.
- 2) The screen appears which you can input Short Answer or Essay. Input answer there.
- 3) After input answer is completed, Transmission starts if press 'SEND' key in short.
- 4) 'Transmission Success' is shown on the screen after Transmission is completed.
- 5) 'If press 'CLEAR' key, phrase disappears and it changes standby mode.

## Answering Short Answer/Assay Question

### ***Mode Change Input***

Press 'SHIFT' key → Korean → Capital English → Small English Letter → Number → Symbol  
You can change in order above.

### ***Input Korean***

CheonJiIn Korean Input way is used.

### ***Symbol Input***

9 symbols are shown on Symbol Selection List. This symbol matched with keyboard 1~9 respectively. If you press a matched key with a symbol you want, corresponding symbol is shown. You can select a symbol of previous or next table by using left/right key  
90 kinds of symbol are listed such as Mathematics symbol.

## Spec

	Item		Note
PRS-1000	MCU	PIC24FJ128	16 bit microcontroller
	Graphic LCD	1.8 inch TFT LCD	80 Word
	RF Tx/Rx	2.4 GHz	GFSK
	Operating Freq	2 442 MHz	1 CH
	Keypad	21 EA	
	Memory	1 MByte	
	Battery	3.7 V, 700 mAh	Rechargeable Li-ion Battery
	USB Connector	Charge connector	DC 5 V
	SIZE	55 x 120 x 10	W x H x D (mm)

**THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.**

Operation is subject to the following two conditions; (1)

This device may not cause harmful interference, and (2) this device must accept any interference received,

including interference that may cause undesired operation.

**CAUTION : Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications not expressly approved by the manufacturer could void the user's authority to operated the equipment under FCC rules.

This Device has been evaluated to comply with RF exposure requirement for general use limit in portable condition. It is safe to be used in sold condition.



## Customer Support & A/S

**Support Company : B&S Media. Co., Ltd.**

**Address : #703 JnK Digital Tower, 111, Digitalro-26gil, Guro-gu, Seoul, Korea**

**A/S phone number: +82-2-588-3323**

**HomePage: [www.bsmedia.co.kr/](http://www.bsmedia.co.kr/)**

- Pictures/photos in this instructions are for user's understanding. Those could be different from real things and could change without notice.
- Specification/function in this instructions could change for improvement of performance/quality without notice.
- Contents of this instructions could be different according to S/W version of device or manufacturer's situation and could change without notice.
- Please use bulletin board on [www.bnsmedia.co.kr](http://www.bnsmedia.co.kr) before applying A/S.

## Product Warranty

### ❧ 제품보증서 ❧

제 품 명		모 델 명	
제조번호			

보증기간		구입일자	
판 매 점		전화번호	
주 소		판 매 자	

● 무상 서비스 안내

구입 후 1년(제품 보증기간) 이내에 제품이 고장날 경우에만 무상 서비스를 받을 수 있습니다.

	소비자 피해유형	보상교정
정상적인 사용상태에서 발생한 성능과 기능상의 하자로 고장 발생시, 고장성 불량에 한함.	구입 후 10일 이내 중요한 수리를 요할 때	제품교환 또는 환불
	구입 후 1개월 이내 중요한 수리를 요할 때	제품교환
	동일 하자로 3회까지 고장 발생시	무상수리
	동일 하자로 4회째 고장 발생시	제품교환
	소비자가 수리 의뢰한 제품을 사업자가 분실한 경우	제품교환
	※ 환불 : 구입가로 구매처를 통한 환불 (구입시 영수증 제출)	