XRV mobile BMS

HO**KK**AIDO by **Termal** Group

Installation & User Manual

Warning for the Installer

Please read carefully the instructions contained in this Manual, as they provide important information about safe installation, use and maintenance. After removing the package, check the integrity of the unit. The system must be in accordance with current safety standards.

The manufacturer cannot be held responsible for any damage caused by improper, incorrect and unreasonable use. For any repair, please contact the Authorized Technical Centre only. Failure to comply with the above prescriptions may compromise the safety of the appliance.

XRV mobile BMS

The centralized controller XRV mobile BMS has been designed to ensure ease of use of Hokkaido systems. The installation takes a few minutes, and requires a connection to the power supply (90-200Vac) and the connection to the air-conditioning system via the bus XYE. Once installed and powered on, please refer to the section "First configuration" of this Manual.

The appliance is equipped with a Wi-fi module that allows you to configure and manage it via mobile devices or from your home computer. Once properly configured, you can control your system also by remote via the special section at www.hokkaidobms.eu
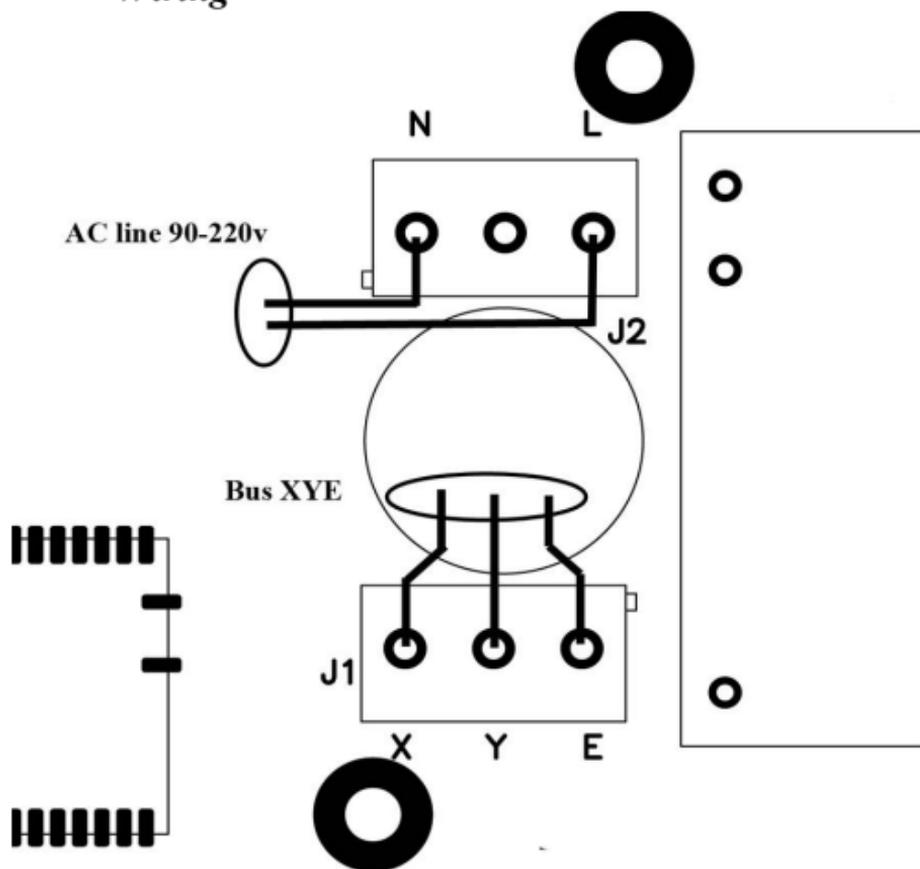
Installation

Open the appliance, remove the terminal cover and fasten it to the wall or on a mounting box using the appropriate screws.
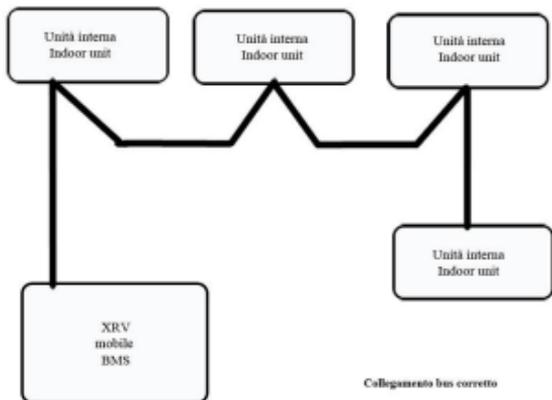
Power supply

The power supply must be AC 90~220V 50/60Hz.

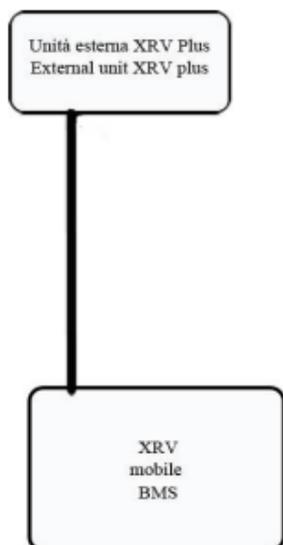**WARNING !!! Wrong connection of power supply can seriously damage the unit.**

Wiring

Systems with indoor units series 1 or 2 : connect the bus to the indoor units as shown in Fig. 2

Collegamento bus corretto

X	⊘	————	⊘	X
Y	⊘	————	⊘	Y
E	⊘	————	⊘	E

Fig. 2

Correct bus connection

Systems with all indoor units series 4 and outdoor units series XRV Plus : connect the bus X-Y-E as shown in Fig 2/1

Connect the appliance directly to the master outdoor unit, checking that the addressing setting is automatically selected (see outdoor unit instructions)

Reinstall the terminal cover.
Close the unit, making sure to insert the hooks into the seats.

First configuration

When powered, the centralized control emits a double beep if it is configured to connect in a local Wi-fi (default), or a single beep if it is configured to connect in a network with Wi-fi modem. After a few seconds, another beep is emitted to indicate that the centralized control is ready to operate. If a double beep is heard when the unit is powered, you can proceed with the parameter configuration to connect the centralized controller in a network with Wi-fi modem. Otherwise, to set the unit so that it can connect in a local Wi-fi, press for 1 sec. the button through the hole. (see Fig. 3)
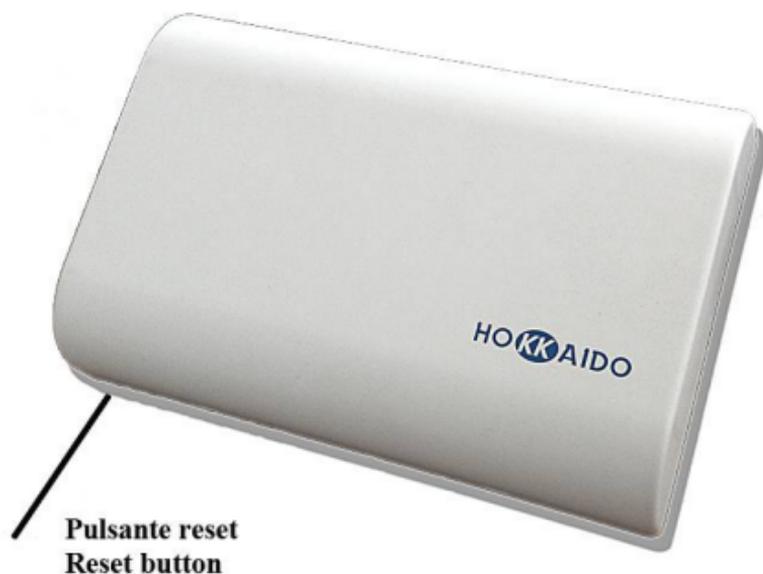

Pulsante reset
Reset button

Fig. 3

Download "Hokkaido 2.0" software from www.hokkaidobms/download.

Connect to "Hokkaido_XRV" network and launch the app. Enter the "Network" screen and deactivate the button "Use sensor network".

Fill in the fields with the appropriate data of your router, and press "Set". Now the centralized controller will beep and will connect to your network.

Exit the application; reconnect to your network and launch the app. again.If you have not used the DHCP, you will be able already to display settings. In the case of active DHCP, go to the "Network" screen and press the button "Search".

The app will search to find the assigned IP address and to store it for subsequent access.

Panel

The operating state is displayed for each unit connected.

- A) Update the list of indoor units.
- B) Modify the operating parameters of all indoor units
- C) Select the indoor units on which to execute the changes (after you have made your selection, press "Set", see the following paragraph Operation Settings)
- D) Double click to change the settings of a single unit

A

B

C

| Update | Set | Set all |

Name	Operating mode	Fan speed	Remote controller	Setting temp.	Detected temp.
☐ 01	Auto	Auto	ON	20°	20,0°
☐ 02	Auto	Auto	ON	20°	20,0°
☐ 03	Auto	Auto	ON	20°	20,0°
☐ 04	Auto	Auto	ON	20°	20,0°

D

FIG. 4

Operation Settings

In the Operation Settings screen (see Fig. 5), some controls may be enabled or disabled if the settings are related to a single unit or to multiple units.

- A) Set operation mode
- B) Set fan speed
- C) Set min. temperature
- D) Set max. temperature
- E) Set temperature to be kept
- F) Detected temperature
- G) Enable/Disable remote control
- H) Enable/Disable motorized flap
- I) Enable/Disable weekly scheduling
- J) Send settings to the centralized controller
- K) Set the name of indoor unit
- L) Table of weekly scheduling
- M) Modify the weekly scheduling
- N) Send the weekly scheduling to the centralized controller

To memorize changes of A ~ I parameters on centralized controller, press the J button.

To modify the unit's name (max 15 characters) after setting the name, press the K button.

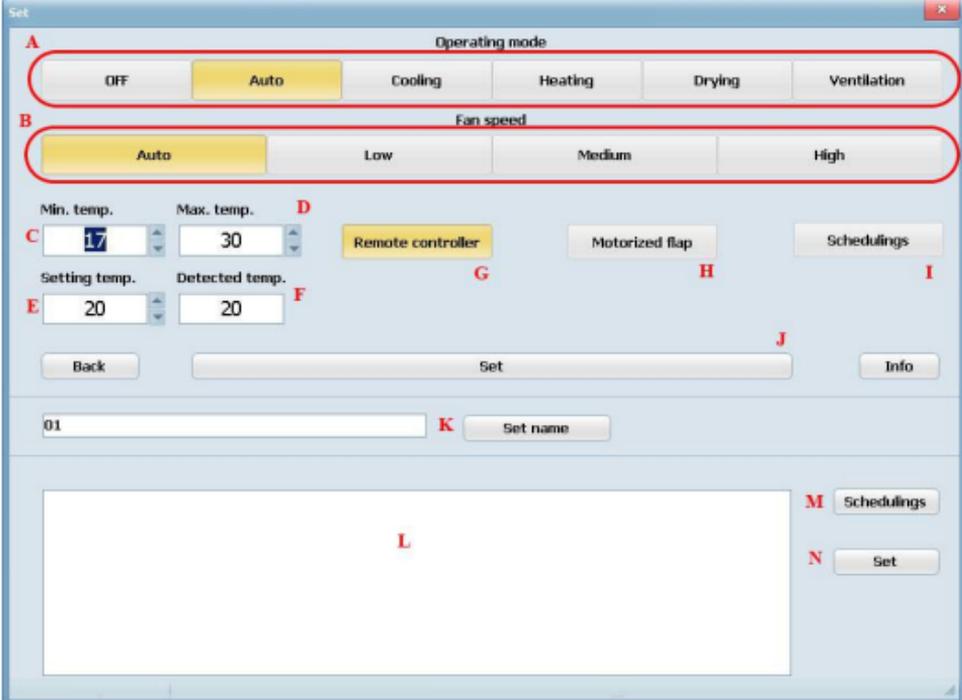If you press the M button, you can modify the weekly schedulings (see Fig. 6).

FIG. 5

Weekly Scheduling

A) Modify – the columns are the following :
    Day
    Hour
    Minutes
    Temperature
    Operation mode (* no changes)
    Ventilation (* no changes)
B) Add the scheduling to the list.
C) Cancel all changes and go back to the previous screen
D) Save changes and go back to the previous screen

Press the N button (Fig. 5) to send the schedulings to centralized controller.
N.B. The schedulings are active only if the "I" button has been activated.

Operating mode

Programm setting

		C	Back
Monday 08:00 - Temp. 22°C - Mode: Auto - Ventilation: Auto			
Monday 21:00 - Temp. 27°C - Mode: Heating - Ventilation: Auto		D	Save
Tuesday 08:00 - Temp. 22°C - Mode: Auto - Ventilation: Auto			

Monday 08:00 - Temp. 22°C - Mode: Auto - Ventilation: Auto
Monday 21:00 - Temp. 27°C - Mode: Heating - Ventilation: Auto
Tuesday 08:00 - Temp. 22°C - Mode: Auto - Ventilation: Auto
Tuesday 21:00 - Temp. 27°C - Mode: Heating - Ventilation: Auto
Wednesday 08:00 - Temp. 22°C - Mode: Auto - Ventilation: Auto
Wednesday 21:00 - Temp. 27°C - Mode: Heating - Ventilation: Auto
Thursday 08:00 - Temp. 22°C - Mode: Auto - Ventilation: Auto
Thursday 21:00 - Temp. 27°C - Mode: Heating - Ventilation: Auto
Friday 08:00 - Temp. 22°C - Mode: Auto - Ventilation: Auto
Friday 21:00 - Temp. 27°C - Mode: Heating - Ventilation: Auto
Saturday 08:00 - Temp. 22°C - Mode: Auto - Ventilation: Auto
Saturday 21:00 - Temp. 27°C - Mode: Heating - Ventilation: Auto
Sunday 08:00 - Temp. 22°C - Mode: Auto - Ventilation: Auto
Sunday 21:00 - Temp. 27°C - Mode: Heating - Ventilation: Auto

A

B

| Day: | Hour: | Minutes: | Temperature: | Mode: | Fan speed: | |
| All days | 21 | 00 | 27°C | Heating | Auto | Add |

FIG. 6

Operation Settings for All Units

In the screen of operation settings for all units, there are 2 controls which are not available for single settings, and that allow the following functions :

A) activate / deactivate the remote controls
B) lock operating mode, select operating mode and press "Set"

see Fig. 5.1

Concerning all other controls, the directions in Fig. 5 are effective.

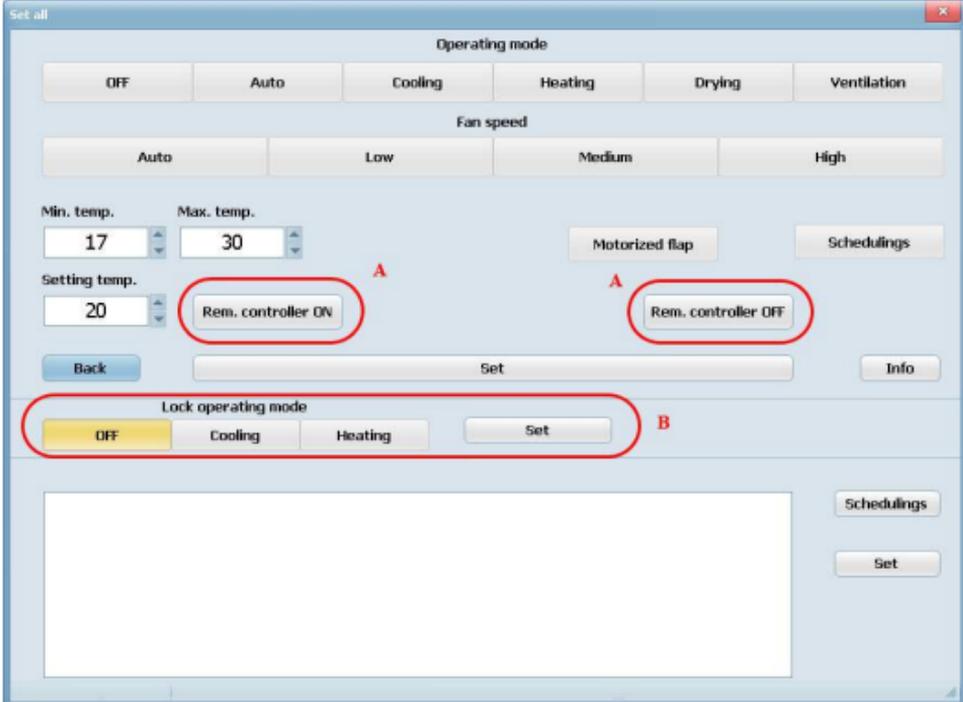FIG. 5.1

Settings

This screen allows to set the operating parameters of centralized controller.

A) Enable/Disable the password required when you want to carry out modifications (default password "Hokkaido")
B) Allows to change the password
C) Enable/Disable the management of centralized controller from web portal
D) Enable/Disable the alarm in case of error units
E) Set the time of automatic update of the indoor units' list in "Panel" screen
F) Shows the list of memorized centralized controllers, the active command and the command with a checked mark. Tap the name of command to activate it.
G) Allows to register the sensor on web portal.
H) Set time of centralized controller, time is that of device
I) Update all parameters by requiring them to centralized controller

FIG. 7

If you press "G", a user name and a password are required with which the registration on web portal has been carried out.

The registration is possible only if the web function has been activated, and the sensor has sent at least once its operating parameters.

Therefore, before using this function, please activate web connection in the "Setting" screen and wait for at least 15 min.

By activating this function, the active sensor is linked to your account previously created on web site (see the following chapter). If you have not activated an account yet, you must first proceed to create your account on www.hokkaidobms.eu

After having registered the sensor, you can control its operation also by remote through the site:
www.hokkaidobms.eu

Router parameters

A Use device network

B

Net name   TP-LINK

Password

C Use DHCP

IP address   10.0.0.60

Gateway   10.0.0.1

DNS   10.0.0.1

D

Device connected 10.0.0.60

E Set

F Update

G Search

FIG. 8

Network

This screen allows to set the network parameters and to select the type of connection.

A) Enable/Disable sensor network. Enables to connect the centralized controller in a local Wi-fi. This mode is needed when – for any reason – the sensor's connection to your network is lost (eg if you change your router). To set up the centralized controller in this mode, press for about 1 sec. the button through the hole (see Fig. 3)

B) Network name and password of your Wi-fi network (pay attention as the fields are sensitive to upper-case/lower-case letters)

C) Enable/Disable the management of DCHP

D) IP address, Gateway, DNS, fields for setting the network parameters of centralized controller.

E) Send the selected parameters to centralized controller

F) Search for IP address of centralized controller on the network

G) Update operating parameters on centralized controller.

To connect the centralized controller to your network, fill in the various fields based on the configuration of your network, and press "Set" (E)

Web Site

The web site for the management of centralized controller is at the address www.hokkaidobms.eu
From the menu you can activate your account which will allow you to manage the centralized controller also through the special section on site.

Once you have registered and carried out the "login", you will find yourself in a situation similar to that applications (iOS or Windows) where it is possible to control and modify the settings and programming of centralized controller.

If once on web site you do not see any centralized controller associated to your account, please refer to the section relative to the registration of centralized controller, according to the application used.

Once you save a change, this change will not be carried out immediately, but will remain in a queue until your centralized controller will query our server to check if there are any changes to settings. In the Information screen, the bottom of the list shows the number of pending changes.

The centralized controller connects to the server about every 10 min. to send data and check if there are any modifications set by the web.

Technical Specifications

- ✓ ON/OFF and operation mode
- ✓ Room temperature with min et max limits of setting
- ✓ Fan speed, flap direction
- ✓ Lock of remote control and lock of operation mode
- ✓ Weekly Timer with max 59 settings
- ✓ Access by password
- ✓ Optional connection to web portal
- ✓ Power supply : 90-220Vac 50/60Hz
- ✓ Requires iOS™ device or PC with Windows™

Information on Disposal and Recycling

Questo simbolo indica che il prodotto deve essere smaltito nel rispetto delle leggi e delle normative locali che regolano lo smaltimento dei rifiuti tossici. Quando il prodotto raggiunge la fine del proprio ciclo di vita utile, portalo nel punto di raccolta stabilito dalle autorità locali. Alcuni punti di raccolta accettano i prodotti gratuitamente.

All electrical and electronic equipment must be disposed of separately from general household waste using the sites designstes by local authority. If a product display this symbol of a crossed-out rubbin bin, the product is subject to European Directive 2002/96/EC. For further information on disposing of your used equipment, please contact your local authority, your refuse collection service or the dealer you purchased the product from.

HOKKAIDO by

Termal
Group

Bologna - Italy

Version 0.9
www.hokkaidobms.eu
www.hokkaidoitalia.it