STAGEMAKER®
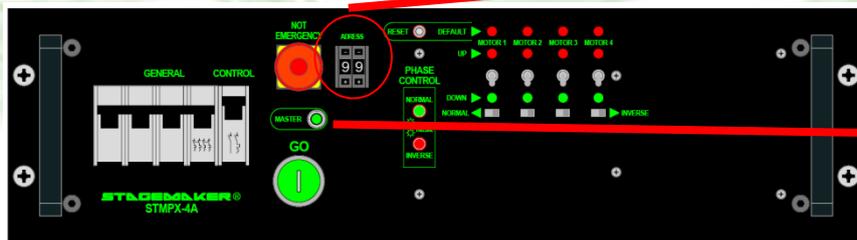
Owner's manual   STMPX Controller

24-1-13

Hand held remote controller

BAB32PX and HR32PX

Those two types of remote controller are used with the **STMPX controller range**.
The STMPX controller is available with 4, 8 or 16 channels. It is available either for A or B version hoists.
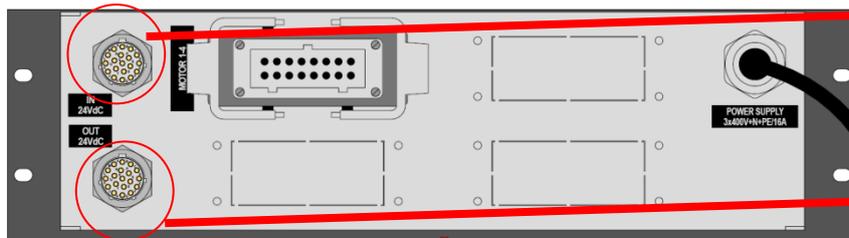
Examples:

1. STMPX-4A: 4 channels controller for A version hoists. The rear panel is made of a 16 way metallic outlet, a fan-out is required for hoist connection.

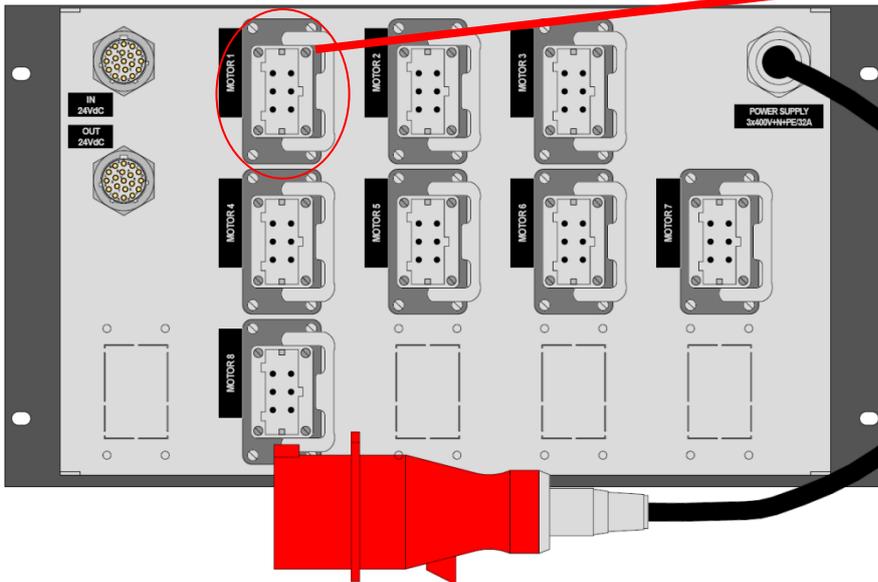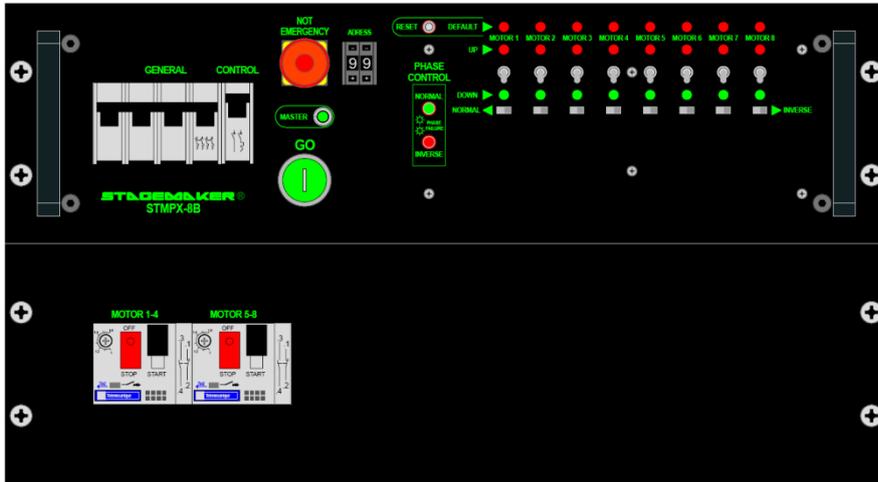Controller address. First controller must have « 01 » address.

Master light: when the LED is on, this indicate that the controller can be operated using the GO button underneath.

« IN » connector. Connect either the BAB32PX or the radio rack.

« OUT » connector. Connect the provided end plug or the analog extension lead in case of daisy chain configuration.

2. STMPX-8B: 8 channels controller for B version hoists. The rear panel is made of 8 plugs (6 way metallic outlet)

Connect hoist to this outlet. Hoist must be equipped with a 6 way plug.

The STMPX controller has the particularity to be linkable (creation of a daisy chain). The controllers are linked together using the analog extension lead as shown on the picture below.
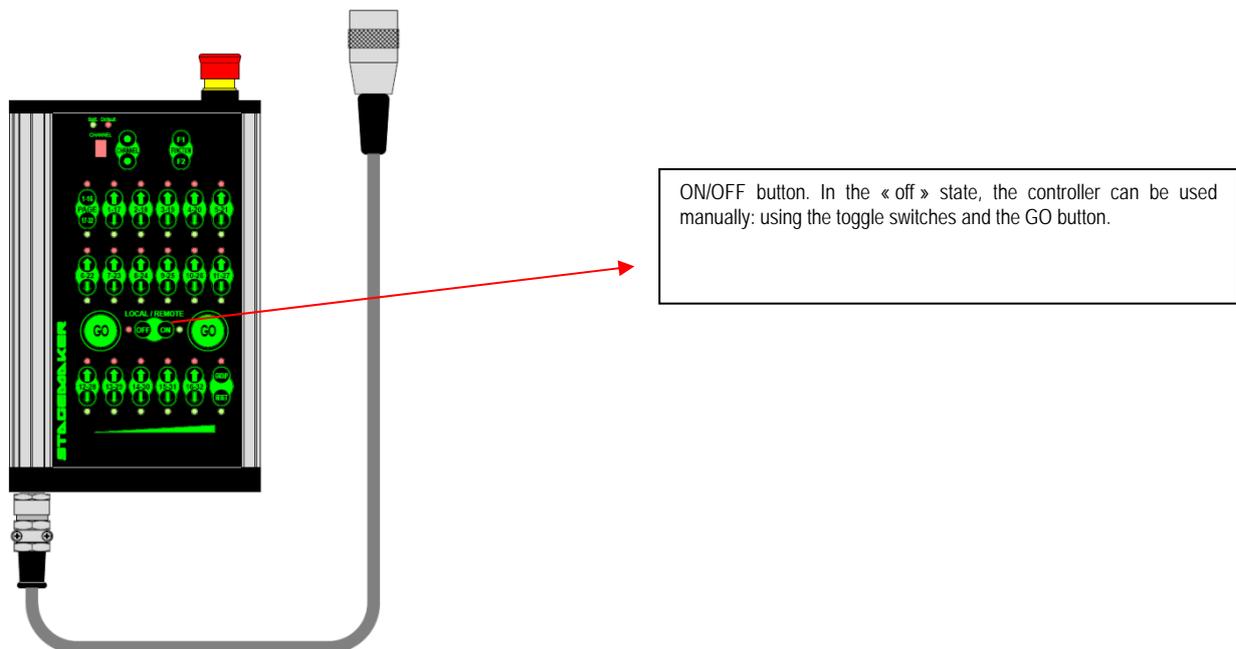
When linking controllers, the analog extension lead must be connected to the "OUT" connector of the first controller and the "IN" connector of the second controller. The last controller in the chain must have the following end plug:
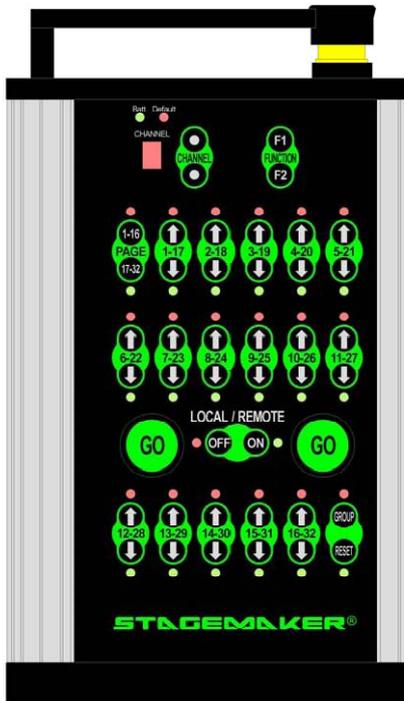

Connection of the remote device

<u>Cable remote controller</u>: **BAB32PX**

Plug the remote to the "IN" connector of the first controller. In the event where more than one controller are used, they are linked through the "IN" and "OUT" connector. The "IN" connector of the first controller of the daisy chain is free and should be used for the remote (alternatively an end plug can be connected: in this case the controller can be manually operated using the toggle switches and "GO" button of the front plate. Daisy chain functionality is no longer available).
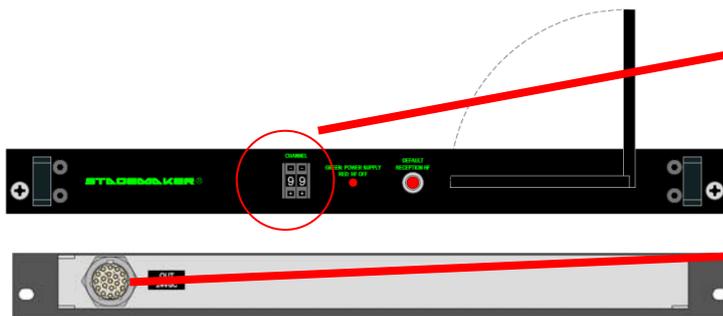

ON/OFF button. In the « off » state, the controller can be used manually: using the toggle switches and the GO button.

Radio remote controller: **HR32PX**

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This is not an emergency stop button. Consequently it is compulsory that the operator is with the vicinity of the controller emergency push button or any other emergency push button (provided by the customer electrical system)

Plug the HF radio rack to the "IN" connector of the first controller using the appropriate cable (provided with the controller). The radio rack is embedded within the flightcase of the controller.

Radio rack:

Radio channel. the number indicated here must be similar to the "channel" selected on the HR32PX device.
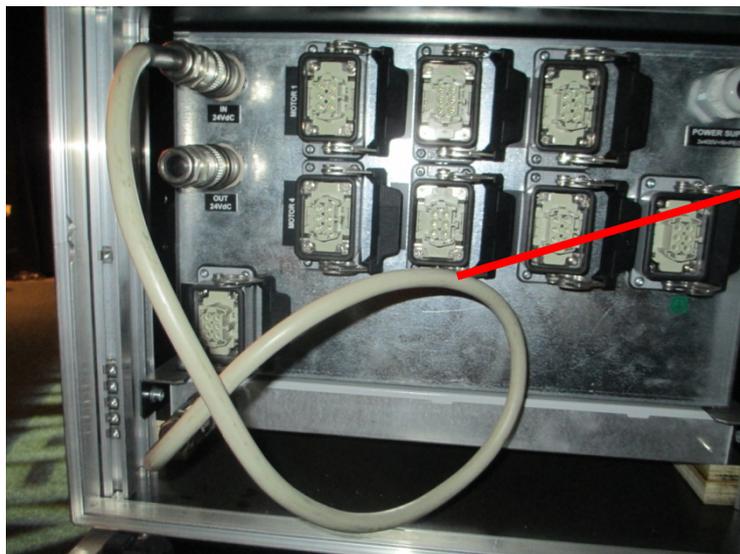
Connect the out connector of the radio rack to the out connector of the "IN" connector of the first controller, using the analog extension lead.

When ordering an STMPX with a radio controller, the radio rack is already integrated in the Flightcase of the controller. The following photos shows a STMPX-8B with a rack radio embedded in one Flightcase.

STMPX-8B

Radio rack

Connection between the radio rack and STMPX-8B controller.

<u>Note</u>: The radio rack is a retro-fit option. If original STMPX controller was ordered with a cable remote controller, the radio rack can be connected to existing STMPX without any modification (customer is responsible for the integration of the radio rack in a new flightcase this can be provided upon request).

Rack numbers (One controller only)

Each STMPX controller has a rack identification number, or address. This address can be modified by pressing on the button next to it. When only one controller is used in the system, this address shall always be "01".

Rack numbers (More than one controller)

Basic configuration:

When more than one controller is used in a daisy chain, the address must respect the number of channel of the controller. The number on the rack indicates the first channel of this rack.

Example 1 :   *Daisy chain is made of STMPX-4A + STMPX - 4A +STMPX-8A*

- First controller has address "01"
- Second controller has address "05"
- Third controller has address "09"

In this configuration, the button 7 on the hand held unit corresponds to the third channel of the second controller.

Example 2 :   *Daisy chain is made of STMPX-8A + STMPX - 4A +STMPX-8A*

- First controller has address "01"
- Second controller has address "09"
- Third controller has address "13"

In this configuration, the button 7 on the hand held unit corresponds to the seventh channel of the first controller.

Advanced configuration (daisy chain):

Using the addressing system of the racks it is possible to link several motors to one button of the hand held unit.

Example 2:   *Daisy chain is made of STMPX-4A + STMPX - 4A +STMPX-8A*

- First controller has address "01"
- Second controller has address "01"
- Third controller has address "05"

In this configuration, the button 1, 2, 3, 4 on the hand held unit corresponds to (respectively) channel 1, 2, 3, 4 of the first controller and channel 1, 2, 3, 4 of the second controller. In other word, when selecting the button "1" on the hand held unit and pressing the "GO" button: both motor starts (motor 1 of first controller and motor 1 of second controller)

Start up procedure

Start the controller connected to the cable remote controller or the HF radio rack. Ensure that Emergency stop button is released.

Start the remote controller by pressing the "ON" button. (Ensure that the red/black button is released) The "Master" LED on the front plate of the controller turns off, indicating that the controller can be operated from the remote device.

The remote's display indicates "0", this corresponds to the working group and not the channel. Hoist selected when last turned off are shown

The display indicates two types of numbers:

- *The channel (from 0 up to 29), giving a total of 30 channels. (only effective with radio control)*
- *The groups (up to 29 programmable groups)*

Channel selection

The channel selection is only effective with a radio hand held controller (HR32PX). The channel selected on the radio rack and the radio hand held unit must be the same in order to communicate.

First select a channel on the radio rack, the available channels ranges from "00", "01" up to "29".

When the radio is powered ON, press one of the "CHANNEL" button: . The display blinks and now indicates the channel number (if the display does not blink, press simultaneously both button to access the channels and use the motor selection button to enter the channel, then press again simultaneously on both button in order to exit the channel selection page). To change the channels press the up button to increment or the down button to decrement the channel. There are 30 channels available (from 0 to 29). In case the display is only equipped with one digit, channel 10 to 19 is shown as "0., 1., ... 9.", with a blinking dot, then channel 20 to 29 is shown as "0., 1., ..., 9.", with a fixed dot.

Group selection

The remote controller offers the possibility to program some group, up to 29. A group consists of a selection of at least 1 hoist.

Once the group is programmed, the user can call/select this group and run the corresponding hoists.

(*If the display is made of only one digit, group 1 to 9 are displayed as "1; 2,...,9" , group 10 to 19 are displayed as "1., 2.,..,9." ,with a blinking dot, group 20 to 29 are displayed as "0., 1., ..., 9.", with a fixed dot.)*

<u>Group programming</u>:

Press the (GROUP) button for 3 s. During those 3s, the display indicates "≡", then "P" and "0" are displayed alternatively. Group "0" cannot be programmed and is used for individual selection: in order to select another group, press the number corresponding the group on the remote.
For example,

- to select group 3, press:

- to select group 11, press:

- to select group 19, press:

- to select group 26, press:

Once the group has been selected, proceed directly with the motor selection. Then press "F1" button to save the hoist selection into the group (During the motor selection process, the complete selection can be cleared by double pressing on the Reset button).

<u>Group operation</u>:

Briefly press on the "GROUP" button, the display indicates "≡". Then select the group by pressing the appropriate button or . The selected group is then displayed. Operator can now press the "GO" button and the associated hoists will start in the programmed direction.

<u>Note</u>:
- During operation the display always show the group number.

Hoists individual selection

Use Group "0" in order to manually select the hoist (briefly press "Group" then press button)