User manual:

control unit for TYPE 1 motor for PERGOTENDA®

Corradi
OUTDOOR LIVING SPACE

rev02 25.10.16 www.corradi.eu

This manual contains important information about how to use and safety of the installation. Follow the instructions and keep them for future reference. The module for TYPE1 motor is designed exclusively for the handling of PERGOTENDA® Corradi; any other use is considered improper and prohibited.

Notes on radio systems

It is advisable **to avoid using radio systems in areas with strong interference** (for example, near police stations, airports, ports, hospital, etc.). A technical inspection is in any case advisable before installing any radio system in order to identify sources of interference.
Radio systems can be used where possible disturbances or malfunctioning of the transmitter or the receiver do not cause a risk factor, or if the risk factor is cancelled by suitable safety systems.
The presence of radio device operating on the same transmission frequency (**433,42 MHz**) can interfere with the radio receiver of the motor and so reduce the range of the system and limit the functionality of the installation.

Disposal

Dispose materials on the proper containers, complying with the law in force in your locality. This product may have substances that are polluting for the environment and dangerous for the health. At the end of the product life cycle, carefully comply with the waste disposal rules. It is strickly forbidden to dispose the product on the domestic waste.

Technical specifications (@ 20°C)

✓ Power supply:	230 Vac, 50/60 Hz	✓ Memorizable sun sensor:	1
✓ Contact capacity:	5A at 250 Vac	✓ Memorizable wind sensor:	up to 4
✓ Working temperature:	from –20 to +55 °C	✓ Range (estimes):	100m outdoor, 20m indoor
✓ IP protection:	IP68		
✓ Working frequency:	433.42 MHz	(*) rain sensor and sun sensor included	
✓ Memorizable transmitters:	up to 40 (*)		

01. WARNINGS

01.1 WARNINGS FOR SAFETY

Incorrect installation can cause serious injuries ● Keep these instructions for future maintenance work and disposal of the product ● All the product installation, connection, programming and maintenance operations must be carried out only by a qualified and skilled technician, who must comply with laws, provisions, local regulations and the instructions given in this manual ● The wiring must comply with current IEC standards ● Some applications require hold-to-run operation and can exclude the use of radio controls or require particular safety devices ● To prevent potentially dangerous situations, check the operating condition of the structure regularly

01.2 WARNINGS FOR INSTALLATION

The product must be installed in accordance with the provisions in the PERGOTENDA® CORRADI technical manual ● Check that the package is intact and has not been damaged in transit ● A heavy knock and the use of unsuitable tools can cause the damage ● Do not pierce or tamper with the product in any way. Do not modify or replace parts without the manufacturer's permission ● The power cable must be positioned in such a way that it does not come into contact with moving parts ● If there are several radio appliances in the same system, they must not be less than 1.5 m apart ● Do not install the product near metal surfaces ● Use momentary (hold-to-run) control buttons. Do NOT use stay-put switches ● Position the buttons within sight of the roller shutter/awning but a long way from its moving parts. Position the buttons more than 1.5 m from the floor ● Adjust the mechanical limit switches of the motor before connecting it to the module

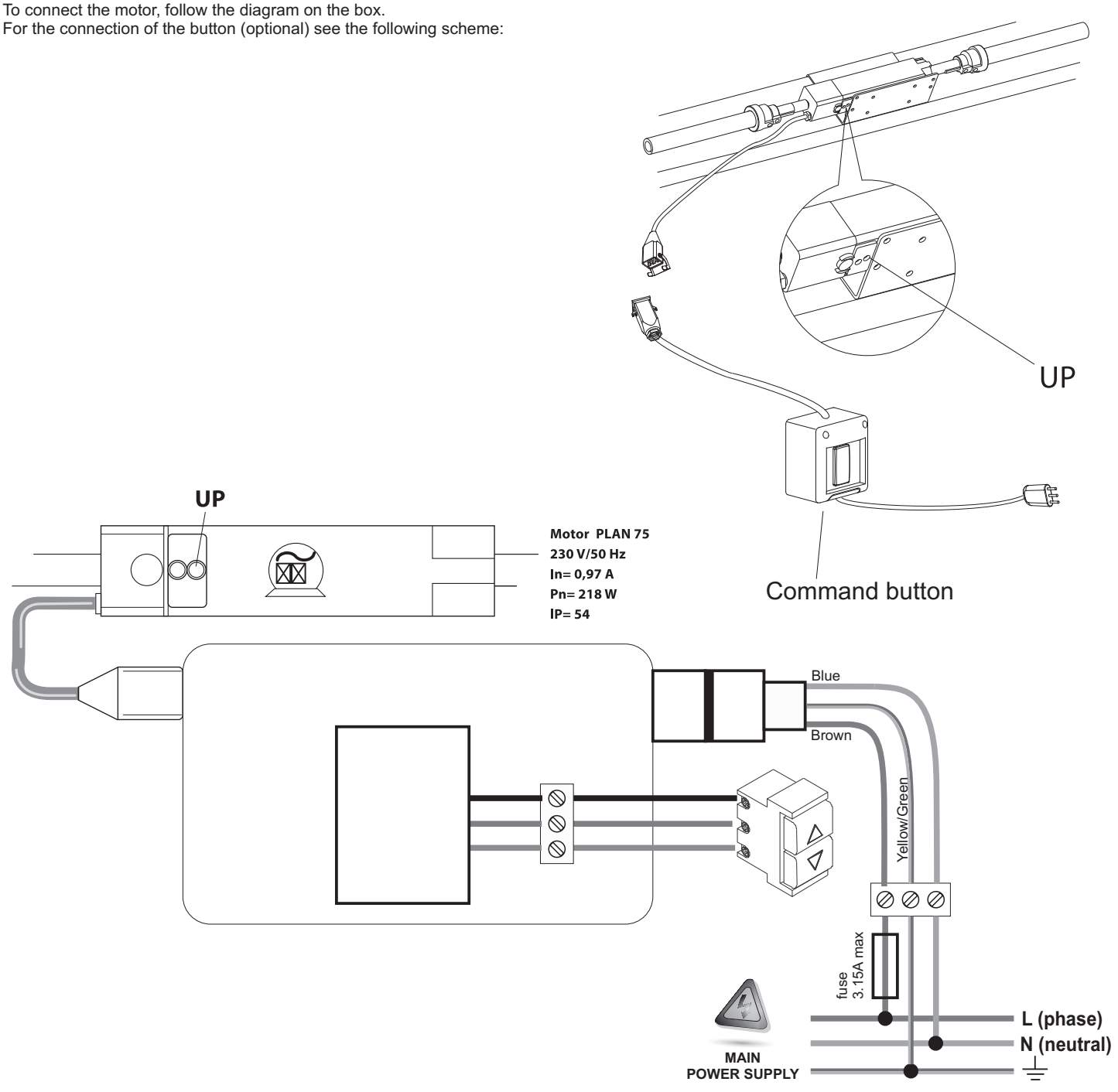
01.3 WARNINGS FOR USE

The product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or given instructions on how to use the product by a person responsible for their safety ● Before operating the roller shutter/awning, make sure there are no people or objects in the area involved in its movement. Check the automation during movement and keep people at a safe distance, until the movement ends ● Do not allow children to play with the appliance or with the fixed control devices. Also, keep the portable control devices (remote controls) out of the reach of children ● Do not operate the roller shutter/awning when maintenance operations are being carried out (e.g. window cleaning). If the control device is automatic, disconnect the motor from the power line

02. ELECTRICAL CONNECTIONS

Make the connections with the power switched off ● Check that the power line does not come from electrical circuits intended for lighting ● A circuit breaker or residual current device must be inserted in the power line. An isolating device with overvoltage category III, namely distance between contacts of at least 3.5 mm, must be inserted in the power line ● The product has no protection against overloads or short circuits. Install a protective device in the power line that is appropriate for the load, such as a fuse of max. 3.15 A ● Use momentary (hold-to-run) control buttons. Do NOT use stay-put switches. The control buttons are connected to the line voltage and must therefore be properly isolated and protected

To connect the motor, follow the diagram on the box.
For the connection of the button (optional) see the following scheme:



02.1 POWER SUPPLY

The product must be supplied at 230 Volts 50 Hz exclusively via the supplied cable.

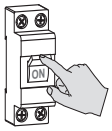
02.2 CONNECTION OF COMMAND BUTTON (optional)

The buttons should be with momentary positions (hold to run), do not use switches with position maintained. If necessary, connect the control buttons as shown. More control buttons can be connected in parallel.

PLEASE NOTE: THE USE OF THE PUSH-BUTTON FOR THE PERFORMANCE OF THIS PROCEDURE IS MANDATORY IN CASE YOU DO NOT HAVE THE REMOTE CONTROL OR THE EXCHANGE, OR YOU DO NOT HAVE A WALL COMMAND ARE NOT YET BEEN MADE A COMMAND WALL.

03. FIRST INSTALLATION

A

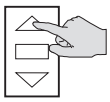


Give power to the module

B

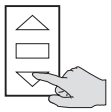
The motor makes 4 movements...

If the 4 movements were **upward**, within 15 sec press **UP** of transmitter to memorize



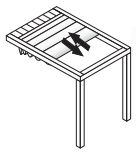
UP

If the 4 movements were **downward**, within 15 sec press **DOWN** of transmitter to memorize



DOWN

C



The module stores the settings; the motor signals that installation is complete.

3.1 LIMIT SWITCH OPENING (DOWNHILL)

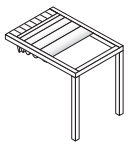
Start the opening of the canvas by pressing the down button of the push-button, of the remote or of the wall control (according if you have or not the exchange) and simultaneously with a screwdriver press the button marked "UP" keeping the pressure on both for at least 5 seconds (you have to ensure that the switch of the canvas is sufficiently long to take more than 5 seconds necessary for the button to activate). Now the "UP" button is left pressed, and continu ing to press the button for the downhill (button of the remote or of the wall control, or of the push button), gradually get closer to the point of limit switch you want. Once obtained, stop the descent of the canvas and move it in the opposite direction (by pressing the up button of the remote or of the wall control, or of the push-button) in order to release the button and register the limit switch you want.

3.2 LIMIT SWITCH CLOSING (UPHILL)

Start the closing of the canvas by pressing the up button of the push-button, of the remote or of the wall control (according if you have or not the exchange) and simultaneously with a screwdriver press the button on the unmarked command (next to UP button) keeping the pressure on both for at least 5 seconds (you have to ensure that the switch of the canvas is sufficiently long to take more than 5 seconds necessary for the button to activate). Now the unmarked button on the command, is left pressed, and continuing to press the button for the uphill (button of the remote or of the wall control, or of the push button), gradually get closer to the point of upper limit switch you want. Once obtained, stop the climb of the canvas and move it in the opposite direction (by pressing the downhill button of the remote or of the wall control, or of the push-button) in order to release the button and register the limit switch you want.
PLEASE NOTE: Do not let the terminal to "PACK" tubes , but stop it always a little bit before in order not to cause stress to the system.

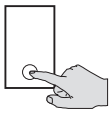
04. MEMORIZATION/DELETION OF A RADIO DEVICE

A



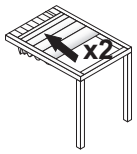
Bring the motor in an intermediate position

B



Press PROG of the transmitter for about 5 s

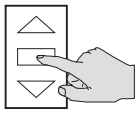
C



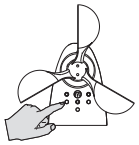
The motor makes 2 briefly upward movements

WITHIN 15 seconds...

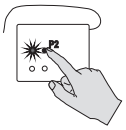
D (1)



Press **STOP** of the transmitter you want memorize/delete.

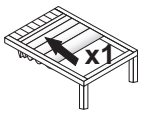


Press **1** of the sensor you want memorize/delete.

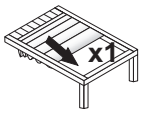


Press **P2** of the rain sensor you want memorize/delete.

E



Memorized !



Deleted !

The motor signals the operation performed.

(1) Hold down the button on the transmitter or radio sensor until the motor performs the signal in point E. In particular, to memorize or delete a battery powered sensor you may need to hold the button up to 10 seconds. If the button is not pressed within 15 seconds, the motor exits the programming and signals it with 2 downward movements. If the module has memorized only one hand-held transmitter, it can't be deleted (the non-cancellation is indicated by two downward movements).

05. SUN, WIND, RAIN SENSOR

05.1 WIND SENSOR

If the wind radio sensor measures a wind speed greater than the set threshold, the wind sensor sends the message of "wind alarm": the device commands an upward movement and inhibits the manual controls until the dangerous situation remains.

05.2 SUN SENSOR

If the sun sensor measures a brightness above the set threshold for at least 2.5* minutes, the sensor sends the message "presence of sun" and the device commands a lowering operation. If the sun sensor measures a brightness below the set threshold for at least 18* minutes, the sun sensor sends the message "absence of sun" and the device commands an upward movement. The "sun function" can be turned on / off by the transmitter (see transmitter manual "sun function"). If the "sun function" is inactive, the device will ignore commands from the sun sensor. When you change the setting of the "sun function", the motor makes a signaling (1 short upward movement and one brief downward movement).

(*) these values can be different depending on the model of radio sensor used

05.3 RAIN SENSOR

If the rain sensor measures a rainfall intensity above the set threshold, the rain sensor sends the message "presence of rain" and the device commands an upward or downward movement, depending on what you set on the rain sensor. The manual controls are still active.

06. TEST RADIO FUNCTION

When you memorize a wind sensor in the device, a control of communication between the wind sensor and the module is automatically activated. If communication is lost for more than 60 minutes, the device performs an upward movement to protect the structure. This manoeuvre is performed automatically every 60 minutes until the restoration of radio communication. The factory recommends keeping the "radio test" in order to identify in good time any malfunction of the radio sensor. The TEST RADIO function can be activated / deactivated only through a hand-held transmitter.

ARCO	FLUTE, KUADRO	Other transmitters...
01. Bring the motor in an intermediate position 02. Press MENU for about 5 sec, until «rS» appears on display 03. Press 1 time PREV / 7 times NEXT. «17» appears on display 04. Press STOP. The motor signals: 1 up = active, 1 down = inactive 05. To deactivate: press PREV To activate: press NEXT 06. Press STOP. The motor signals: 1 up = active, 1 down = inactive	01. Bring the motor in an intermediate position 02. Holding down STOP, press PROG for about 1 sec, until LEDs light 03. Press 1 time UP / 7 times DOWN. 04. Press STOP. The motor signals: 1 up = active, 1 down = inactive 05. To deactivate: press DOWN To activate: press UP 06. Press STOP. The motor signals: 1 up = active, 1 down = inactive	See the User manual of the transmitter at section: «RECEIVER MENU - Function 17 - Test radio»

07. RESET

This procedure restores the module to the default conditions (factory settings). This procedure must only be carried out by qualified technical staff. Having carried out the reset procedure, the qualified technician must promptly carry out all the installation operations described at section 03. FIRST INSTALLATION.

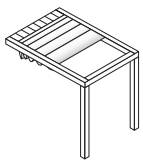
07.1 USING A TRANSMITTER

Before the "reset" by transmitter:
- ✓ Select the radio channel on the transmitter that controls the device to reset.
- ✓ Make sure that this radio channel controls only the device you want to reset.

ARCO	FLUTE, KUADRO	Other transmitters...
01. Bring the motor in an intermediate position. 02. Press MENU for about 5 sec, until «rS» appears on display 03. Press 2 time PREV / 9 times NEXT. «29» appears on display 04. Press STOP. The display flashes, the motor performs some movement 05. Press together PREV and NEXT for about 2 seconds until the motor indicates that the reset was performed (1 moving up / down). 06. Reinstall the module (see section 03).	01. Bring the motor in an intermediate position. 02. Holding down STOP, press PROG for about 1 sec, until LEDs light 03. Press 2 time UP / 9 times DOWN. 04. Press STOP. The LEDs flash, the motor performs some movement 05. Press together UP and DOWN for about 2 seconds until the motor indicates that the reset was performed (1 moving up / down). 06. Reinstall the module (see section 03).	See the User manual of the transmitter at section: «RECEIVER MENU - Function 29 - Receiver reset»

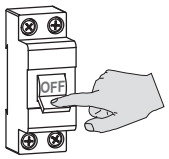
07.2 USING COMMAND BUTTONS

A



If possible, bring the motor in an intermediate position

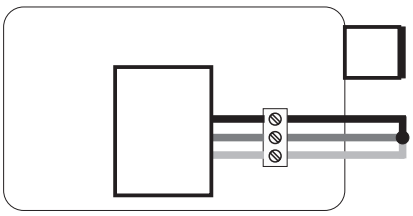
B



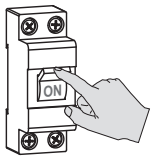
Switch off the power supply

C

CONNECT AS SCHEME:

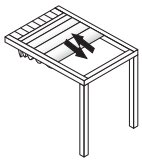


D



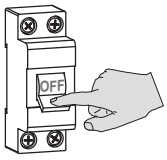
Switch on the power supply

E



Wait about 30 seconds until the motor performs two short alternating movements.

F



Switch off the power supply

G

Restore the connections and reinstall the module following the procedure 03. First installation

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CE