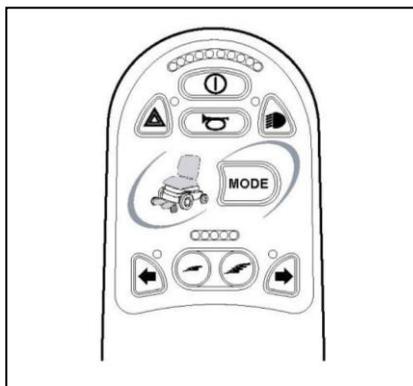


R-NET (LED)



GEBRUIKSHANDLEIDING BEDIENINGSKASTEN
MANUEL D'UTILISATION - BOÎTIER DE COMMANDE
BEDIENUNGSANLEITUNG STEUERKASTEN
USER MANUAL CONTROLS

4102665B



English 4

English

© 2022 Scout Mobility B.V. All rights reserved.

The information provided herein may not be reproduced and/or published in any form, by print, photoprint, microfilm or any other means whatsoever (electronically or mechanically) without the prior written authorization of Scout Mobility B.V..

The information provided is based on general data concerning the constructions known at the time of the publication of this manual. Scout Mobility B.V. executes a policy of continuous improvement and reserves the right to changes and modifications.

The information provided is valid for the product in its standard version. Scout Mobility B.V. cannot be held liable for possible damage resulting from specifications of the product deviating from the standard configuration.

The available information has been prepared with all possible diligence, but Scout Mobility B.V. cannot be held liable for possible errors in the information or the consequences thereof. Scout Mobility B.V. accepts no liability for loss resulting from work executed by third parties.

Names, trade names, etc. used by Scout Mobility B.V. may not, as per the legislation concerning the protection of trade names, be considered as being available.

2022-02

Preface.....	05
1. The controller.....	06
1.1 R-net controller.....	06
1.2 Actuator Indicator.....	08
2. Driving the wheelchair with the controller.....	09
2.1 Switching the controller on or off.....	09
2.2 Driving the wheelchair.....	09
2.3 Speed.....	09
2.4 Driving Profile.....	09
2.5 Selecting a profile.....	09
3. Operating the electrical adjustment options.....	10
3.1 Selecting the desired adjustment option.....	10
4. Lights.....	11
5. Troubleshooting.....	11
6. Locking the controller.....	12
7. Technical specifications.....	13
8. Technical diagrams.....	14
8.1 Technical Diagram.....	14
8.2 Technical diagram battery charger.....	15

Preface

This manual

This user manual describes the use of the electric wheelchair via the controller. The total user manual for this electric wheelchair consists of three booklets. Read the entire user manual carefully before taking the product into use. The information provided by this manual is essential for the safe use and proper care (cleaning) of the wheelchair.

- The general user manual
- The user manual for the seating system (AGILO)
- The user manual for the controller (this booklet)

If one of these user manuals was not included with your wheelchair, please contact your dealer immediately. In addition to this user manual, there is also a service manual for qualified specialists.

This general user manual will refer, where necessary, to one of the other user manuals. This is indicated as follows:

GENERAL: Refers to the general user manual.

CONTROLLER: Refers to the user manual for the controllers.

AGILO: Refers to the user manual for the seating system.

1. The controller

1.1 R-net controller

A controller will usually have three basic functions:

- Driving and steering a wheelchair
- Operating electrical seat adjustments
- Charging the wheelchairs batteries

There are many different control systems for wheelchairs on the market. If the controller on your wheelchair does not resemble the one in figure 1.1, contact your dealer.

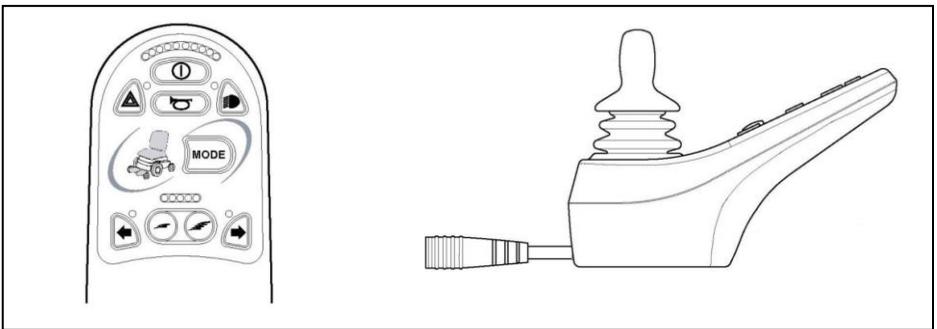


Figure 1.1

R-net by PG Drive Technologies (CW) is a collective name for the entire control system of the wheelchair. The wheelchair is operated by means of a controller, which includes the following components:

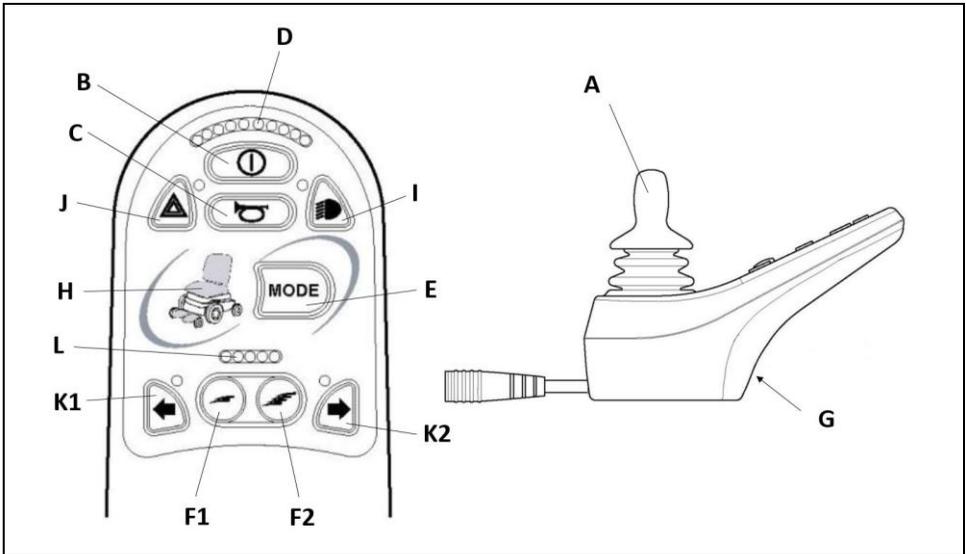


Figure 1.2

Part	Function
A. Joystick	In the 'drive' mode: driving and steering In the 'adjustment options' mode: - Left/right to select the adjustment options - Front/back to select the adjustment options
B. On/off switch	Switching the controller on or off
C. Horn	Warning signal with sound
D. Battery Indicator	Displays the power level of the battery
E. "Mode" button	Changing between the 'driving' and the 'adjustment options' mode
F1: Speed regulator	Reduce driving speed (slower)
F2: Speed regulator	Increase driving speed (faster)
G. Charger connector	Input for the battery charger
H. Actuator Indicator	Shows what seating function is active
I. Lights button	Switching the lights on or off
J. Hazard lights	Warning signal with lights
K1: Direction indicator left	Switches the left direction indicator on or off
K2: Direction indicator right	Switches the right direction indicator on or off
L. Speed selection indicator	Shows current driving profile

1.2 Actuator Indicator

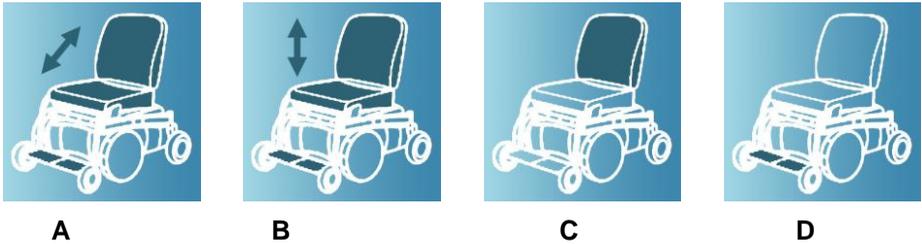


Figure 1.3: Actuator Indicator:

Picture	Function
A	Seat Tilt Function
B	Seat Lift Function
C	Recline (Backrest) Function
D	Legrest Function. This can be either simultaneous or separately left and right

Note : Seating functions that are not present or not connected will not be shown in the indicator.

2. Driving the wheelchair with the controller

2.1 Switching the controller on or off

To be able to drive or operate the electronic adjustment options of the wheelchair, the controller must be switched on. Press the on/off button (B in figure 1.2).

2.2 Driving the wheelchair

Driving an electric wheelchair is done by operating a joystick. Move the joystick forwards and the wheelchair will also move forwards. Steer left and right and the wheelchair will turn.

2.3 Speed

The maximum speed can be controlled by the speed regulator on the controller (F1 en F2 in figure 1.2). Speed can be controlled with the joystick while driving. If the joystick is moved a little, the wheelchair will move more slowly.

2.4 Driving Profile

This controller can also be set to make the wheelchair suitable for different driving profiles or environments. For example, selecting a low speed profile (left LED's from the speed selection indicator, L in picture 1.2) will ensure that the wheelchair will react more 'calmly'. Once outside, the profile can be adjusted to a more 'robust' setting. The current profile is displayed in the speed indicator (L in figure 1.3).

2.5 Selecting a profile

To switch to a different profile, just press the 'Speed' buttons (F1 or F2 in figure 1.2). Press the 'Speed' button until the most appropriate profile has been selected.

3. Operating the electrical adjustment options

Not every wheelchair has been equipped with electronic adjustment options. We make a distinction between four different adjustment options to the seating system:

- Tilt adjustments
- High/low adjustments
- Backrest adjustments
- Legrest adjustments



Figure 3.1 Electronic adjustment options

3.1 Selecting the desired adjustment option

1. Switch on the controller
2. Press on the 'mode' button to select the 'adjustment options' mode (E in figure 1.2). The controller will now be in the 'adjustment options' mode. It is also possible to follow the status.

The joystick is used to select and operate the electronic adjustment options.

1. Move the joystick to the left or the right to select the desired adjustment option. The selected adjustment option will be visible on the Actuator Indicator.
2. Moving the joystick forwards and/or backwards will activate the selected electronic adjustment option (see table 3.1). Move the joystick forwards or backwards until the desired adjustment option has been attained.

	Move joystick backwards	Move joystick forwards
Tilt adjustment	The entire chair will tilt backwards	The entire chair will tilt forwards
High/low adjustments	The entire chair will be raised	The entire chair will be lowered
Backrest adjustments	The backrest will tilt backwards	The backrest will tilt forwards
Legrest adjustments	The legrest angle will increase, the footplate will be raised	The legrest angle will decrease, the footplate will be lowered

Table 3.1 Electrical adjustments

3. To return to the 'drive' mode: Press on the 'mode' button to select the 'drive' mode.

Note: If you move the chair while adjusting the high/low option, the speed will be reduced.

4. Lights

Not every wheelchair has been equipped with lights.

- Lights (I in figure 1.2)
- Hazard Lights (J in figure 1.2)
- Direction indicators (K1 & K2 in figure 1.2)

5. Troubleshooting

If the wheelchair will not function while the batteries are fully charged, check the following points before consulting your dealer:

- Switch the controller off and then switch it on again. Check to see if the malfunction has been solved.
- Check if the free wheel switch was switched to Drive.
- Check if the joystick was in the 0 position when the controller was switched on. In other words, the joystick must not be moved when the controller is being switched on or off.

To indicate a possible malfunction, R-net will use the battery indicator. A description of the malfunction will be showed using flash codes. Report this information to your dealer. The contact information of your dealer can be found on the last page of the general user manual.

Malfunctions list

An extensive list of possible malfunctions can be found in the appendix of the service manual for qualified specialists (also available on www.scoutmobility.nl)

6. Locking the controller

To lock the controller :

- While the control system is switched on, depress and hold the On/Off button.
- After 1 second the control system will beep. Now release the On/Off button
- Deflect the joystick forwards until the control system beeps.
- Deflect the joystick in reverse until the control system beeps.
- Release the joystick, there will be a long beep.
- The wheelchair is now locked and the Speed Indicator LED's (L in figur 1.2) will ripple from left to right.

To unlock the wheelchair:

- If the control system has switched off, press the On/Off button.
- Deflect the joystick forwards until the control system beeps.
- Deflect the joystick in reverse until the control system beeps.
- Release the joystick, there will be a long beep.
- The wheelchair is now unlocked.

7. Technical specifications

Supply Voltage:	24Vdc
Operating Voltage:	16Vdc to 35Vdc
Peak Voltage:	35Vdc
Reverse Battery Current:	40Vdc
PWM Frequency:	20kHz \pm 0.5%
Brake Voltage:	12/24Vdc
Brake Current:	200 μ A min. 1A max.
Charger Connector:	Use only Neutrik NC3MX
Battery Charging Current:	12Arms max.
Maximum Drive Current:	R-Net 60 60A R-Net 80 80A R-Net 120 120A
Indicator Outputs	45W per side
Lighting Outputs	21W per side
Brake Light Output	42W total
Actuator Current:	15A max at reduced speed. 12A max at full speed.
Moisture Resistance:	Electronics to IPX4
Operating Temperature:	Non LCD Modules -25°C to +50°C Modules with LCD Screens -10°C to +50°C
Storage Temperature:	Non LCD Modules -40°C to +65°C Modules with LCD Screens -20°C to +65°C
EMC tested on sample wheelchair:	
Susceptibility:	Tested at 30V/m to EN12184 (1999) and ANSI/ RESNA requirements
Emissions:	To EN55022 Class B
ESD:	IEC801 part 2

8. Technical diagrams

8.1 Technical Diagram

The technical diagram can also be found in the Service manual.

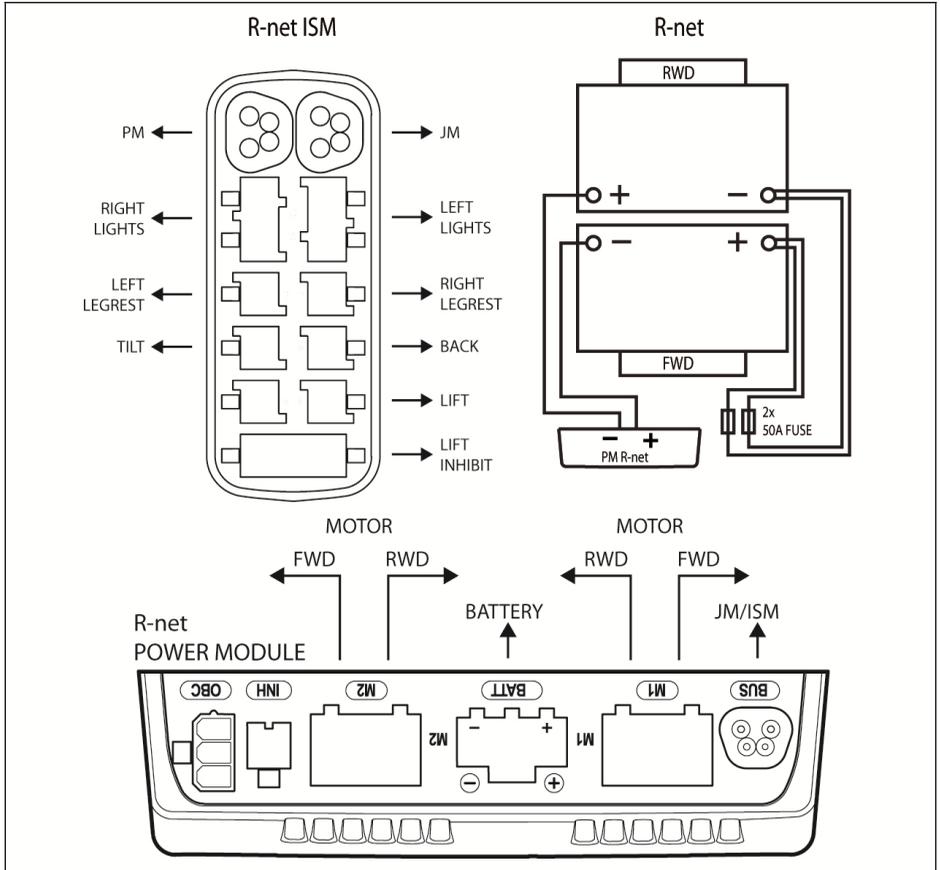


Figure 8.1:

8.2 Technical diagram battery charger

The controller's standard configuration includes a '3-pin connection'. Ensure that the battery charger is properly connected so that the 'negative pole' and the 'inhibit' are connected, enabling the system to prevent the wheelchair from moving when the battery is being charged.

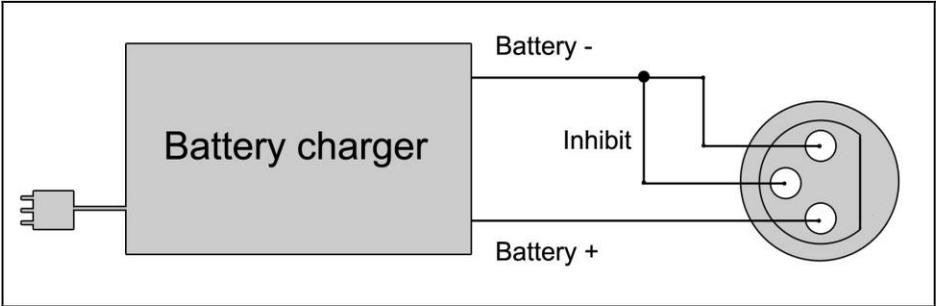


Figure 8.2

Dealer contact details:

If there is no information here you can contact Scout Mobility B.V. for the nearest dealer address.



Tiendschuur 5
5768 SB Meijel
The Netherlands

T +31(0)6 44500578
info@scoutmobility.nl
www.scoutmobility.nl