



SEW
EURODRIVE

Addendum to the Operating Instructions



MOVIPRO® Accessories
PZO00A-BFBIRO-01/.. Keypad



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1 General information

1.1 About this documentation



INFORMATION

The device is designed for use in industrial and commercial systems and machines in combination with a MOVIPRO® application controller.

The functions of the device depend on the characteristics of the MOVIPRO® application controller with which the device is operated.

In addition to this documentation, observe the operating instructions as well as all other applicable documentation of the respective MOVIPRO® application controller.

This documentation is an integral part of the product. The documentation is intended for all employees who perform assembly, installation, startup, and service work.

Make sure this documentation is accessible and legible. Ensure that persons responsible for the machinery and its operation as well as persons who work on the device independently have read through the documentation carefully and understood it. If you are unclear about any of the information in this documentation or require further information, please contact SEW-EURODRIVE.

1.2 Structure of the safety notes

1.2.1 Meaning of signal words

The following table shows the grading and meaning of the signal words for safety notes.

Signal word	Meaning	Consequences if disregarded
▲ DANGER	Imminent hazard	Severe or fatal injuries
▲ WARNING	Possible dangerous situation	Severe or fatal injuries
▲ CAUTION	Possible dangerous situation	Minor injuries
NOTICE	Possible damage to property	Damage to the drive system or its environment
INFORMATION	Useful information or tip: Simplifies handling of the drive system.	

1.2.2 Structure of section-related safety notes

Section-related safety notes do not apply to a specific action but to several actions pertaining to one subject. The hazard symbols used either indicate a general hazard or a specific hazard.

This is the formal structure of a safety note for a specific section:



SIGNAL WORD

Type and source of hazard.

Possible consequence(s) if disregarded.

- Measure(s) to prevent hazard.

Meaning of the hazard symbols

The hazard symbols in the safety notes have the following meaning:

Hazard symbol	Meaning
	General hazard
	Warning of dangerous electrical voltage
	Warning of hot surfaces
	Warning of risk of crushing
	Warning of suspended load
	Warning of automatic restart

1.2.3 Structure of embedded safety notes

Embedded safety notes are directly integrated into the instructions just before the description of the dangerous action.

This is the formal structure of an embedded safety note:

- **▲ SIGNAL WORD** Type and source of hazard.
Possible consequence(s) if disregarded.
– Measure(s) to prevent hazard.

1.3 Rights to claim under limited warranty

A requirement of fault-free operation and fulfillment of any rights to claim under limited warranty is that you adhere to the information in the documentation. Read the documentation before you start working with the unit.

1.4 Exclusion of liability

You must comply with the information contained in this documentation to ensure safe operation and to achieve the specified product characteristics and performance features. SEW-EURODRIVE assumes no liability for injury to persons or damage to equipment or property resulting from non-observance of these operating instructions. In such cases, any liability for defects is excluded.

1.5 Other applicable documentation

This document supplements the operating instructions and limits the application notes according to the following information. Use this document only together with the operating instructions.

1.6 Product names and trademarks

The brands and product names in this documentation are trademarks or registered trademarks of their respective titleholders.

1.7 Copyright

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Unauthorized reproduction, modification, distribution or any other use of the whole or any part of this documentation is strictly prohibited.

2 Unit structure

2.1 Short designation

The following short designations are used:

Unit	Short designation
MOVIPRO® accessories – PZO00A-BFBIR0-01/.. keypad	Device
MOVIPRO® application controller	MOVIPRO®, MOVIPRO® unit

2.2 Scope of delivery

The following device is included in the scope of delivery:

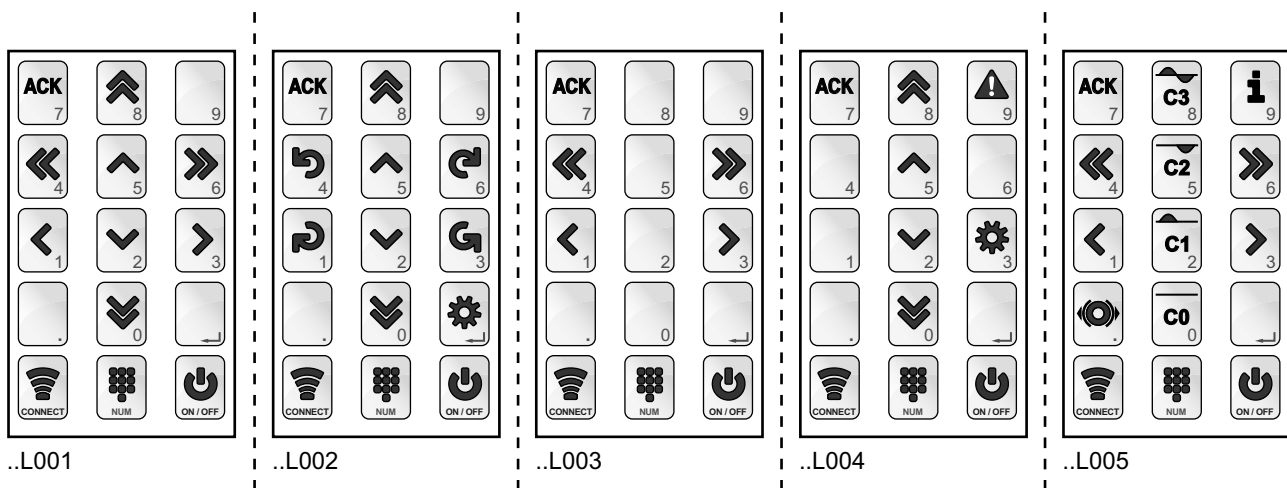
- 1 × PZO00A-BFBIR0-01/..

The available keypad layouts can be read from the type designation:

Keypad layout	Part number
..L001	17975972
..L002	17975980
..L003	17975999
..L004	17976006
..L005	17976014

2.3 Keypad layouts

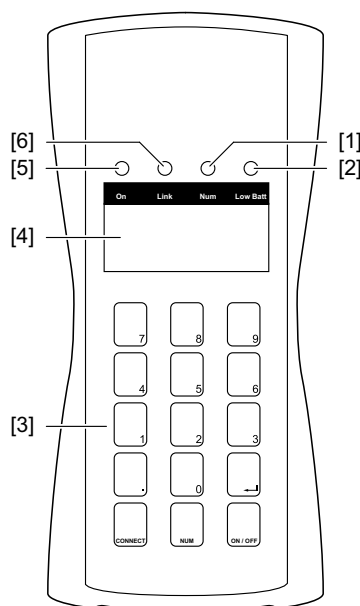
The following figure shows the possible keypad layouts:



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2.4 Basic device

The following figure shows the design of the device:

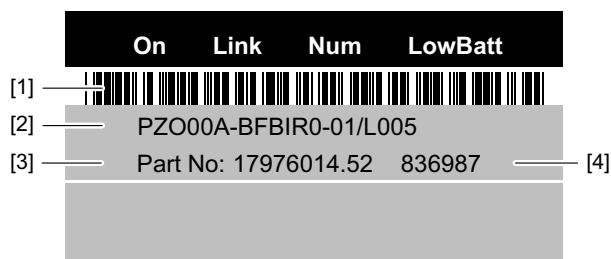


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- | | | | |
|-----|---------------|-----|------------|
| [1] | LED "Num" | [4] | Nameplate |
| [2] | LED "LowBatt" | [5] | LED "On" |
| [3] | Keypad | [6] | LED "Link" |

2.5 Nameplate

The nameplate provides important information about the device. The following figure shows an example of a nameplate:

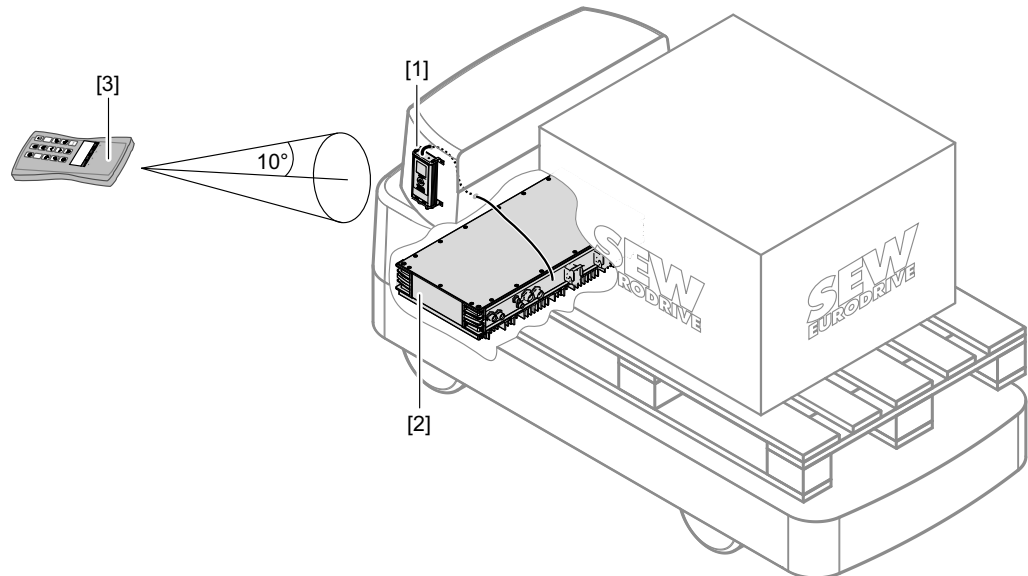


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- | | |
|-----|------------------|
| [1] | Barcode |
| [2] | Type designation |
| [3] | Part number |
| [4] | Serial number |

2.6 Operating principle

The device is used for manual operation of system components that are operated with MOVIPRO® units. The MOVIPRO® units are equipped with an integrated status display and/or a separate display unit. The following figure shows an application example of an AGV system (Automatic Guided Vehicle):



- [1] Display unit with infrared interface
- [2] MOVIPRO®
- [3] Keypad

The transmission medium of the device is infrared light. This requires a direct line of sight between the sender (keypad) and receiver (display unit) during operation.

If the button is pushed, the device sends a key code to the communication and control unit of the MOVIPRO® unit. The key code is interpreted by the installed unit software. The command is executed.

INFORMATION



The assignment and functionality of the keys is define via the unit software of the MOVIPRO® unit. For further information refer to the documentation of the unit software.

3 Operation



▲ WARNING

Risk of injury if the MOVIPRO® unit starts up unintentionally.

Severe or fatal injuries.

- Before you operate the device, check all settings for the key assignments and functionality defined in the unit software.
- Always observe the documentation of the unit software.

3.1 Charging the batteries

The device is equipped with permanently integrated batteries. Charge the batteries completely prior to the first startup.

- ✓ To charge the batteries, use the power supply with an output current of minimum 500 mA and a USB mini B connector.

1. Connect the power supply unit to a power socket.
2. Connect the power supply unit to the device.
3. Observe the display of the device:

LED display "LowBatt" flashes.	The batteries are charging.
LED display "LowBatt" goes out.	The batteries are completely charged.

4. If the batteries are completely charged, remove the power supply unit from the device.
5. Disconnect the power supply unit.

3.2 Keypad

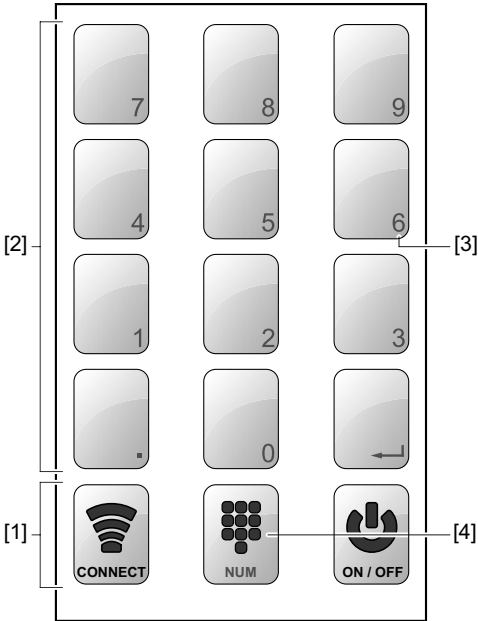
The keypad of the device comprises 3 × 5 keys.

The basic keys [1] are permanently assigned and have the following functions:

- <Connect>: Establishing or exiting a connection
- <Num>: Switching to numerical mode
- <On / Off>: Switching the device on or off

The application keys [2] can be assigned a function in the unit software.

The following figure shows the keypad:



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- [1] Basic keys
- [2] Application keys
- [3] Labeling of the numerical mode
- [4] <Num> key

The keys of the device have a double assignment. They can send commands in symbol mode and numerical mode.

- Symbol mode
- Numerical mode
- If the "Num" LED is not lit, the device is in symbol mode. The functions printed in black on the keys are active.
- If you push the <Num> key, you activate the numerical mode. The "Num" LED lights up red and the functions printed in red on the keys are active.
- Push the <Num> key again to switch back to symbol mode.

INFORMATION



While establishing a connection to a MOVIPRO®, the device automatically switches to numerical mode.

While you enter an address, the device cannot switch back to symbol mode.

3.3 Switching on/off

To switch the device on or off, press the basic key <On/Off> for about 1 second. After an self-test (all LEDs light up briefly), the LED "On" indicates ready for operation.

INFORMATION



- The device can also be switched off in a connected state.
- The device switches off automatically if no key is pressed for 5 minutes.

3.4 Establishing and exiting a connection

3.4.1 Establishing a connection

Proceed as follows to establish a connection to a MOVIPRO® unit:

1. Aim the device at the infrared receiver of the MOVIPRO® unit with which you want to establish a connection.

2. Press the <Connect> key.

The device sends a general connection request to all MOVIPRO® units within reach. The "Link" LED flashes, and the device switches to numerical mode.

You can always abort the connection establishment by pressing the basic key <Connect> again.

3. All MOVIPRO® units within reach show their unit address in the status display.

4. Enter the unit address of the MOVIPRO® unit that you want to control via the keypad of the device. The unit address consists of maximum 5 digits.

For example, press keys <1> <8> <5> to enter the unit address "185".

5. Press the <↵> key to confirm the entered address.

The "Link" LED lights up, and the device sends commands to the selected MOVIPRO®. This is a point-to-point connection.

3.4.2 Exiting the connection

To exit the connection with the MOVIPRO® unit, press the basic key <Connect>. The device sends a request for exiting the connection to the MOVIPRO® unit and changes to "ready for operation" status.

3.5 Sending commands

As soon as a point-to-point connection is established with the MOVIPRO®, the device cyclically sends information about the state of the application keys every 250 ms. If a key is pressed, the information is transferred immediately.

3.6 Status reports

The status of the device is displayed with the 4 LEDs.

LED	Status	Meaning
All	Lit	Self-test after power on.
On	Off	Device is switched off.
	Green light	Device is switched on.
Link	Off	The device does not send commands. No point-to-point connection with a MOVIPRO®.
	Flashing green	The device is waiting for a unit address to be entered.
	Green light	The device cyclically send commands. A point-to-point connection is established with a MOVIPRO®.
Num	Off	Symbol mode: The functions printed in black on the keys are interpreted.
	Red light	Numerical mode: The functions printed in red on the keys are interpreted.
LowBatt	Off	Batteries are fully charged.
	Red light	The charge state of the batteries is low.

4 Service

4.1 List of errors

Error	Possible cause	Measure
The device cannot be switched on.	Batteries are empty.	Charge the batteries.
All LEDs flash briefly after switch-on, then the device switches off automatically.	An error was detected during the self-test.	Consult SEW-EURODRIVE.
The "Link" LED is lit, but the MOVIPRO® cannot be controlled.	An incorrect unit address was entered.	- Press the <Connect> key to switch the remote control to "ready for operation" mode. - Re-establish the connection with the MOVIPRO®. - Make sure that the device is aimed at the infrared receiver of the MOVIPRO® unit.
	A communication error can occur while the connection with MOVIPRO® is being established.	
When entering a unit address, the device automatically switches to "ready for operation" state.	You have entered too many digits for the unit address.	- You can only enter a maximum of 5 digits. - Re-establish the connection with the MOVIPRO®.
While the "Link" LED is flashing, the <Num> key is not active.	Only numbers can be entered while the connection is being established. The numerical mode cannot be exited.	- Enter the unit address and establish a connection with a MOVIPRO®. - You can abort the connection establishment by pressing the basic key <Connect> again.
After confirming the unit address with the <Connect> key, the device switches in "ready for operation" state.	The entered unit address is confirmed with the <↵> key in numerical mode. Pressing the <Connect> key aborts the connection process.	- Press the <Connect> key to re-establish a connection. - Enter the unit address of the MOVIPRO® unit with which the connection is to be established. - Press the <↵> key to confirm your selection.
The power supply unit is connected but the device is not charged.	The power supply unit has not been connected correctly.	- Check if the power supply unit has been connected correctly. - Consult SEW-EURODRIVE.
	The power supply unit is defective.	
	Batteries are defective.	

4.2 Storage



NOTICE

Risk of damage due to defective batteries.

Extended storage can lead to a deep discharge of the batteries. Batteries can be damaged.

- Charge the batteries regularly once a month.

4.3 Waste disposal

Observe the applicable national regulations. Dispose of materials separately in accordance with the regulations in force, for example:

- Electronics scrap (circuit boards)
- Plastics
- Sheet metal
- Copper
- Aluminum
- Batteries

4.3.1 Removing the batteries



▲ CAUTION

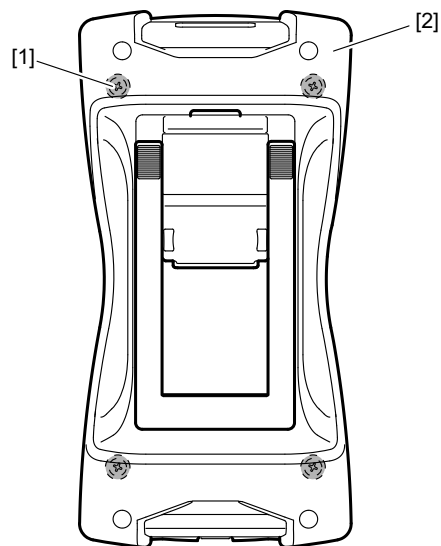
Risk of injury if incorrect batteries are used.

Damage to health, possible damage to property.

- Only open the device if it has reached the end of the product life cycle and will not be used anymore.

Remove the batteries before you dispose of the device. To open the device, proceed as follows:

1. Remove 4 screws [1] by lifting the bumper frame [2] and loosening the screws.
2. Separate both housing parts.
3. Remove the batteries.



[1] Screw

[2] Bumper frame

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5 Technical data

Keypad	
Ambient temperature	+5 °C – +40 °C
Storage temperature	+5 °C – +40 °C
Degree of protection	IP45
Weight without batteries	0.20 kg (0.55 lb)
Dimensions W × H × D	83 mm × 160 mm × 50 mm
Range (with a direct line of sight to the receiver)	approx. 12 m (39 ft) (depending on ambient conditions such as direct sunlight or strong heat sources)
Transmission angle	± 10°
Operating time	approx. 6 h (depends on age of product)
Duration of charging process	Approx. 4 h
Power supply connection	USB mini B socket 5 V min. 500 mA

6 Address list

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	Drive Service Hot-line / 24 Hour Service	HOT-LINE +420 800 739 739 (800 SEW SEW)	Servis: Tel. +420 255 709 632 Fax +420 235 358 218 servis@sew-eurodrive.cz
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Egypt			
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Greece			
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	Western Region	SEW-EURODRIVE INC. 30599 San Antonio St. Hayward, CA 94544	Tel. +1 510 487-3560 Fax +1 510 487-6433 cshayward@seweurodrive.com
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	Hanoi	Nam Trung Co., Ltd R.205B Tung Duc Building 22 Lang ha Street Dong Da District, Hanoi City	Tel. +84 4 37730342 Fax +84 4 37762445 namtrunghn@hn.vnn.vn
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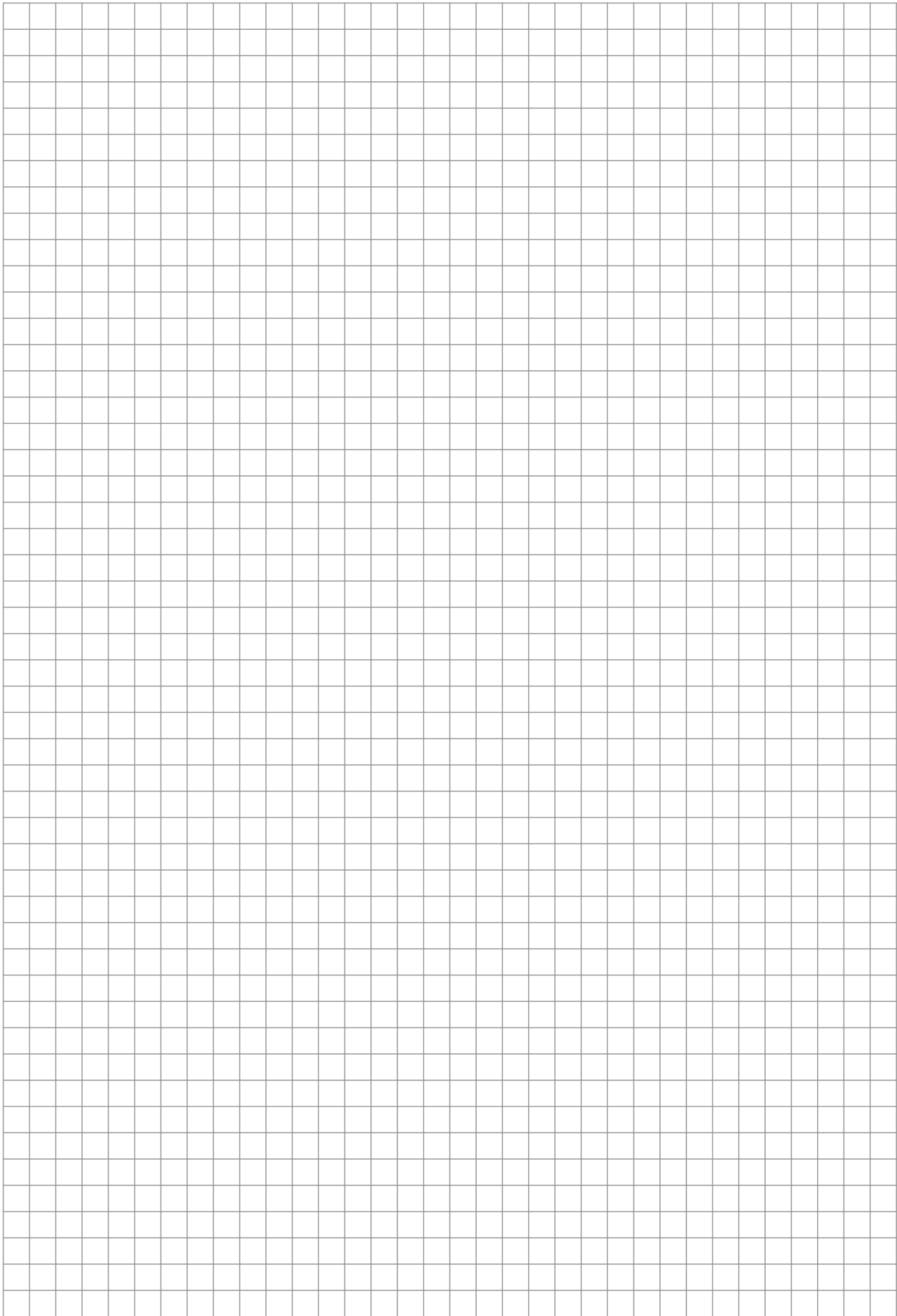
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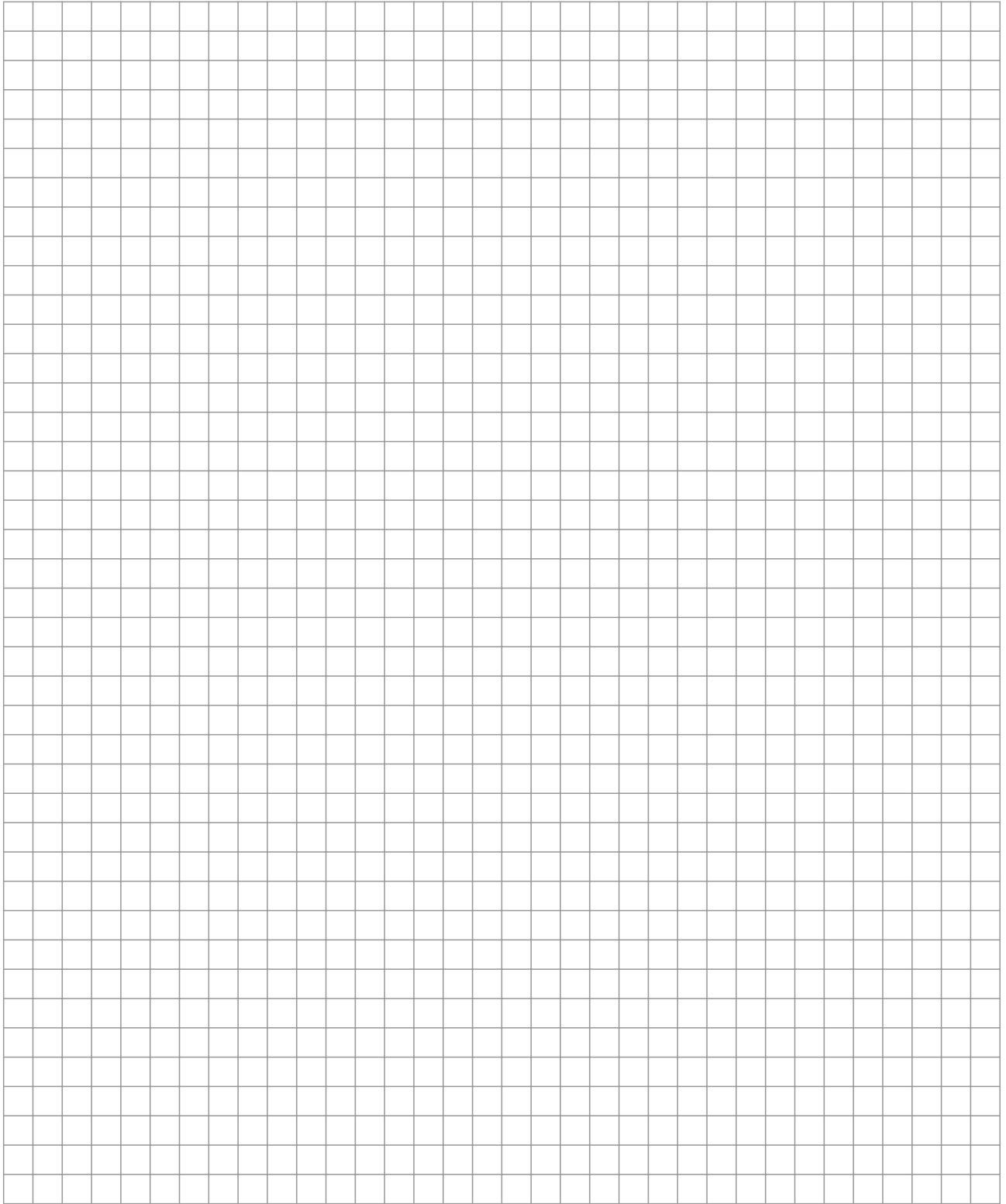
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SEW-EURODRIVE
Driving the world

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