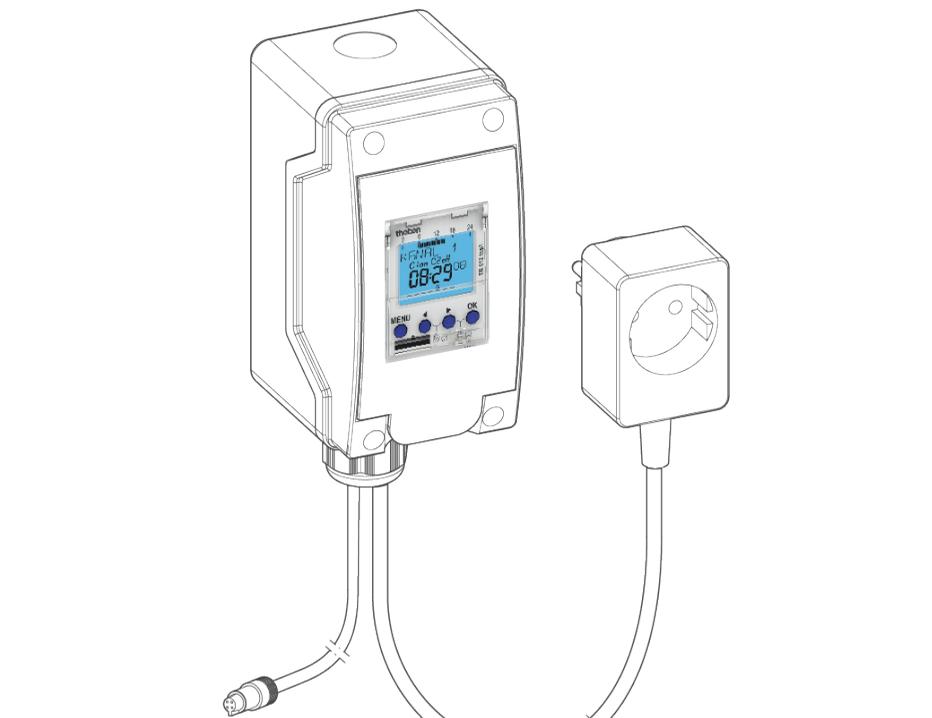


We understand water.



Accessories | Digital time control

Operation manual

grünbeck

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Availability

Monday to Thursday

7:00 am - 6:00 pm

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7:00 am - 4:00 pm

We reserve the right to technical modifications.
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Original operation manual

Edition: März 2021

Order no.: 100100810000_en_055

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1 Introduction

This manual is intended for qualified specialists. The manual is an integral part of the product.

- ▶ Carefully read this manual and the included manuals on the components before you operate your product.
- ▶ Keep this manual and all other applicable documents, so that they are available when needed.

1.1 Validity of the manual

This manual applies to the product below:

- Digital time control for dosing systems

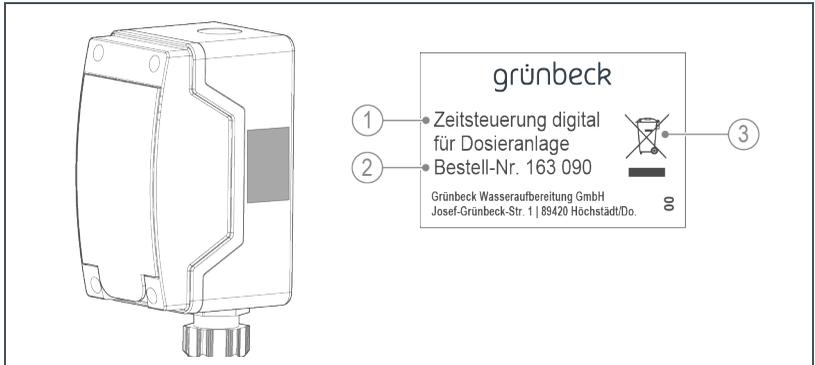
1.2 Other applicable documents

- Technical information for accessories (order no. 118 950)
- Operation manual of GENODOS pump GP (order no. 118 940)
- Operation manual of timer manufacturer

1.3 Product identification

- ▶ Check whether the products indicated in chapter 1.1 correspond to your product.

The type plate is located on the side of product.



Designation	
1	Product designation
2	Order no.

Designation	
3	Disposal information

1.4 Symbols used

Symbol	Meaning
	Useful information or tip
	Reference to further documents
	Work that must be carried out by qualified specialists only
	Work that must be carried out by qualified electricians only

2 Safety

2.1 Safety measures

- Only operate your product if all components are installed properly.
- Do not make any changes, alterations, extensions or program changes on your product.
- Only use genuine spare parts for maintenance or repair.

2.1.1 Electrical hazards

- There is an immediate danger of fatal injury from electric shock when touching live parts. Damage to the insulation or individual components can be life-threatening.
- Only have qualified electricians carry out electrical work on the product.
- In case of damage to live components, switch off the voltage supply immediately and arrange for repair.
- Switch off the supply voltage before working on electrical system parts. Discharge residual voltage.
- Keep moisture away from live parts. Moisture can cause short-circuits.

Labels on the product



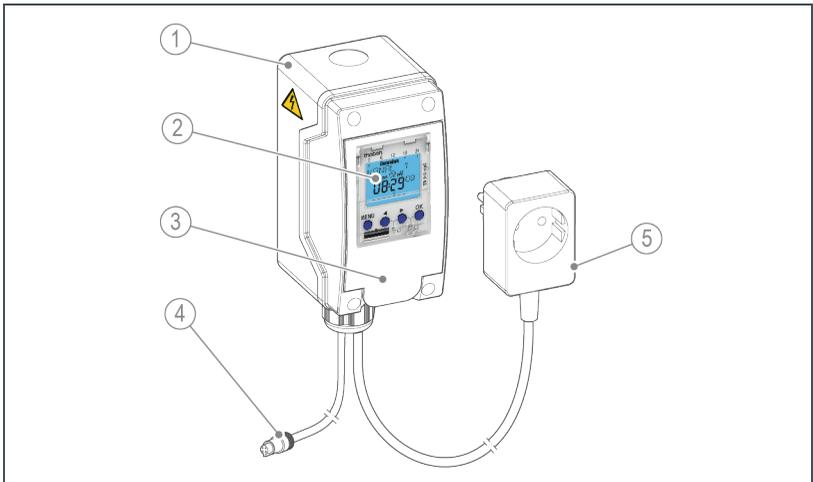
Risk of electric shock

3 Product description

3.1 Intended use

- The product is designed exclusively for use in industrial and commercial applications.
- For digital time control of various electrical systems (e.g. dosing systems with GENODOS pump GP).

3.2 Product components



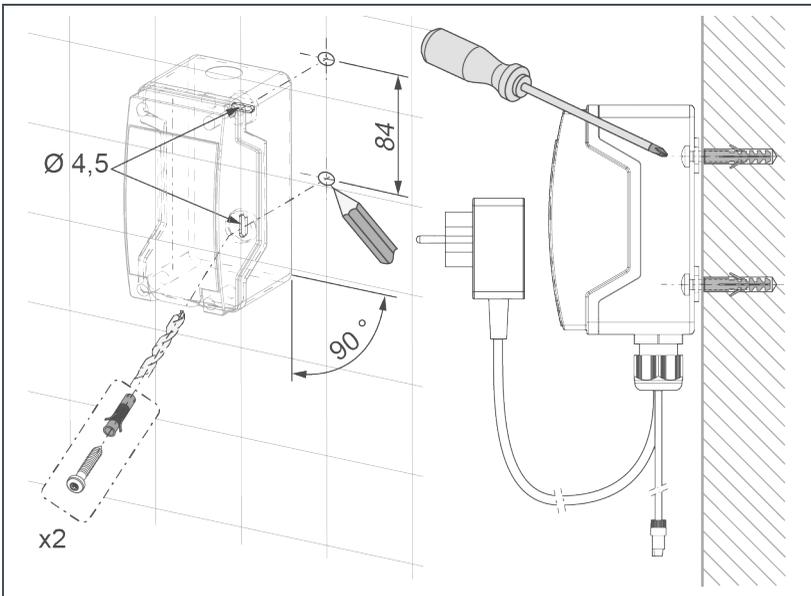
Designation	Function
1 Housing	Device housing PC (150 x 80 x 98 mm)
2 User menu	Digital display, operating keys
3 Cover	Transparent, lockable
4 Contact (red)	Connecting cable for external activation of GENODOS pump GP-../40, 3 m in length
5 Mains plug	230 V, black, with connection cable, 1.5 m in length

4 Installation



The work below must be carried out by qualified specialists only.

- ▶ Select the fastening material according to the wall situation (recommendation: 2x screws made of stainless steel).
- ▶ The fastening material must be provided by the client on site.
- ▶ Unscrew the housing – loosen the 4 screws at the corners.



1. Determine the position of the housing on the wall.
2. Fasten the housing with 2 screws.

4.1 Activation



Obey the operation manual of GENODOS pump GP (order no. 163 940).



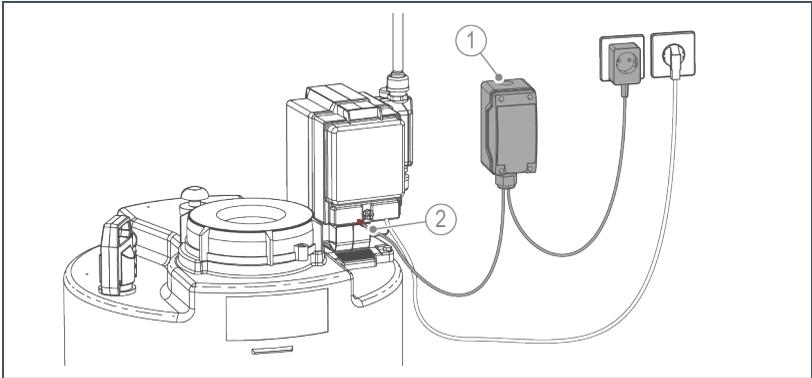
The work below must be carried out by qualified electricians only.

1. Depending on the version of the GENODOS pump GP, the time control can be connected as follows:
 - a External operational release by voltage-free contact
 - b External operational release by switching through the mains supply
2. Check which activation variant is suitable for the GENODOS pump GP used.



The contact “External activation” is not connected for activation by “Switching through the mains supply” (refer to the connection diagrams below).

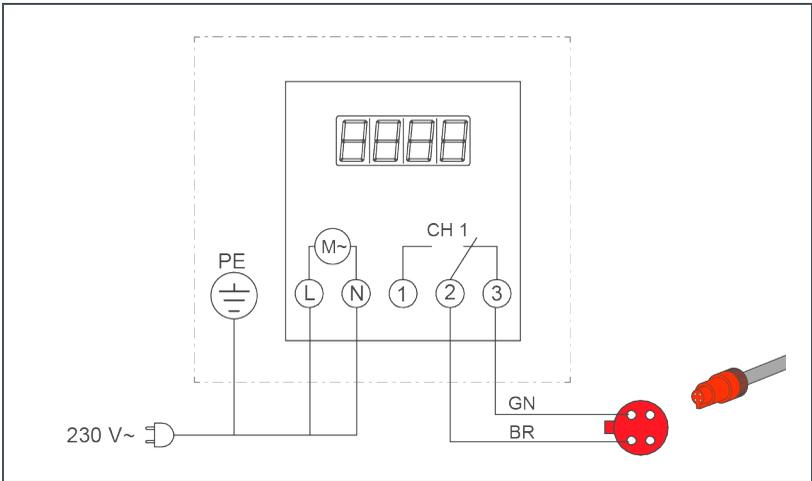
Connection for voltage-free contact



Designation
1 Digital timer

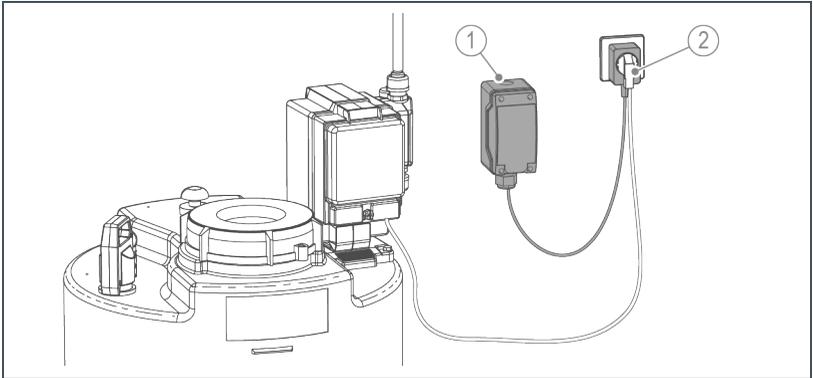
Designation
2 Contact for external activation

- For automatic control of GENODOS pump GP-../40



- Switch position 1-2 closed = Dosing
- Switch position 2-3 closed = Dosing stop

Connection for switching through the mains supply



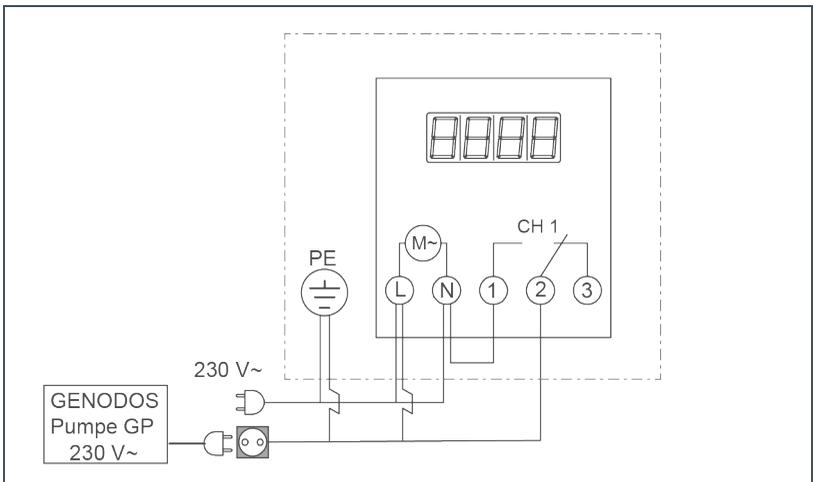
Designation

1 Digital timer

Designation

2 Mains supply

- For GENODOS pumps without voltage-free fault signal output (GP-../10) only



- Switch position 1-2 closed = Dosing
- Switch position 2-3 closed = Dosing stop

5 Operation/Handling



Obey the attached operation manual of the timer manufacturer



Designation

- 1 Display
- 2 Buttons

Designation

- 3 Lock

1. Unlock and open the cover.
2. Program the switching times.

6 Disposal

- ▶ Obey the applicable national regulations.

Packaging

- ▶ Dispose of the packaging in an environmentally sound manner.

Product



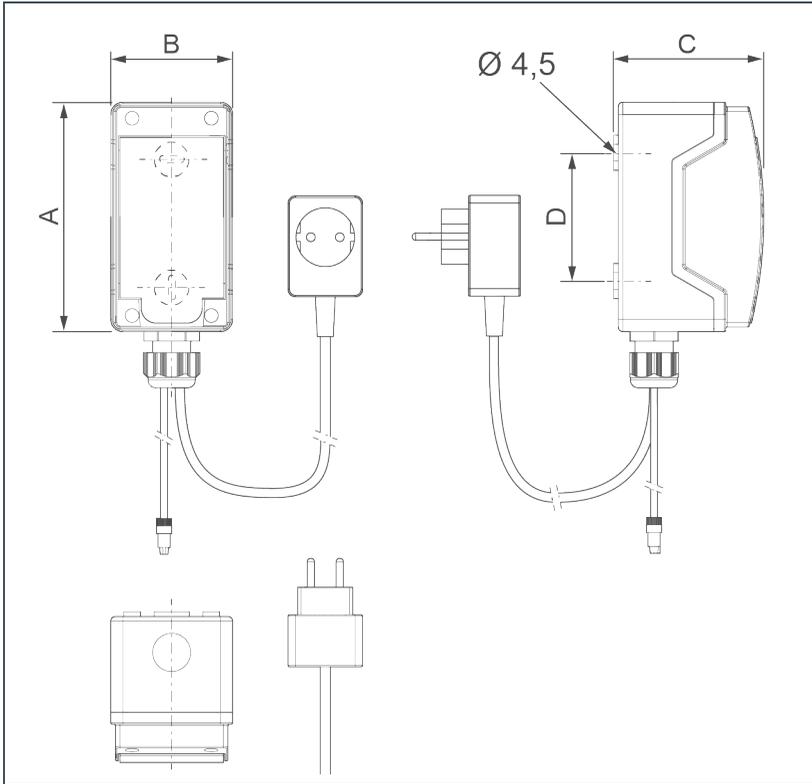
If this symbol (crossed-out wheellie bin) is on the product, it means that this product or its electrical and electronic components must not be disposed of as household waste.

- ▶ Find out about the local regulations on the separate collection of electrical and electronic products.



For information on collection points for your product contact your municipality, the public waste management authority, an authorised body for the disposal of electrical and electronic products or your waste disposal service.

7 Technical specifications



Dimensions and weights		1 Channel
A	Height	mm 150
B	Width	mm 80
C	Depth	mm 100
D	Distance of holes ($\text{Ø } 4.5$)	mm 84
	Weight	g 600

Connection data		
Rated voltage	V	230 ~ (+10 % / -15 %)
Rated frequency	Hz	50 – 60
Power input (standby)	W	0.5
Protection of housing		IP55
Protection of mains adaptor plug		IP52

Performance data		
Switching power AC (250 V)		
• Resistive load (cos φ = 1) max.	A	16
• Inductive load (cos. φ = 0.6)	A	8
• Incandescent lamp load	W	1000
Switching power DC		
24 V= / 60 V= / 220 V=	mA	800/300/150
Switching output		voltage-free
Switching contact		1 changeover contact
Accuracy (typical)	sec	$\pm 0.25/d$ (25 °C)
Shortest switching time	min	1
Switching accuracy (programmable)		every minute, to the second
Memory capacity		50
Pre-selection of switching		yes
Manual switch		automatic operation/ pre-selection of switching continuously ON/continuously OFF
Indication of switching state		yes
Block formation		automatically freely selectable
Changeover summer/winter time		yes

General data		
Ambient temperature	°C	-10 – +55
Operating temperature		+5 – +55
Humidity (non-condensing)	%	< 70
Order no.		163 090

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