

Instruction manual

Touchscreen-Controller 4480

e-dispenser 200 / 400 MA



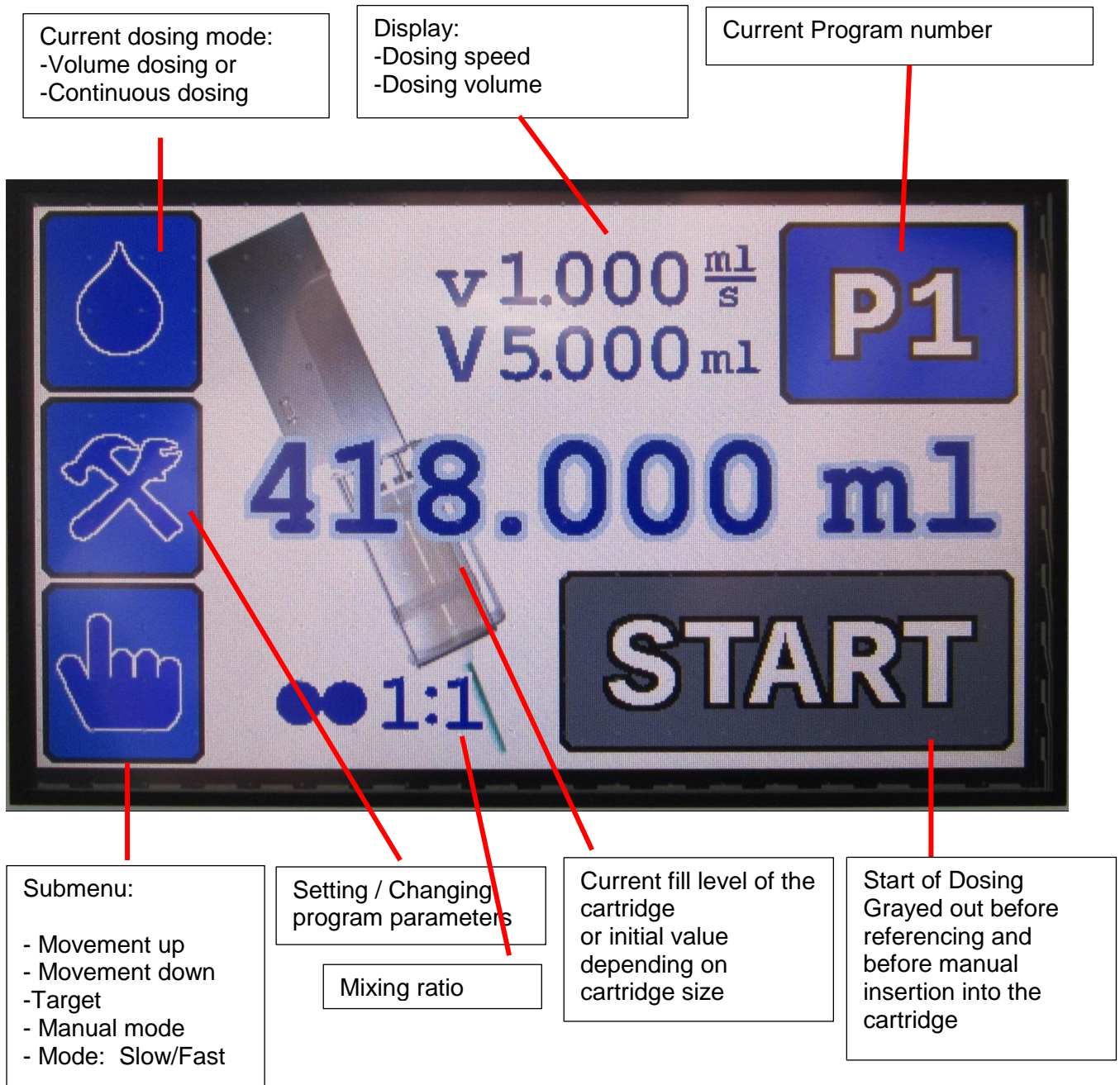
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Caution!

When the control unit is switched on, the motor cable must NOT be disconnected. This can lead to damage to the motor driver. In this case we do not provide any warranty!

The instructions refer to the e-dispenser Art. 4096 and 4099 as an example.

1 Touchscreen Overview Main menu



Attention: Before a dosing program can be started, the dosing valve must be referenced and then the pistons must be manually inserted into the cartridge. Until then, "Start" remains grayed out and cannot be called up.

2 Referencing



Home button/referencing.
The pistons move to the home position

Pistons move up or down as long as the button is touched



Back to main menu

Switch piston travel
fast/slow



Perform the referencing using the "Home" button.
 The pistons retract. This can be used to replace an empty cartridge, for example.

3 Target



As soon as the valve pistons have reached the displayed fill level of 418 ml or below (e-dispenser 400 MP), the value can be set to "400 ml" using this button.
 The contents are then counted down from this value.

This serves to better recognize the remaining dispensing material in the cartridge.

4 Switching to volume dosing / Continuous dosing



Switch from volume to continuous dosing and back.

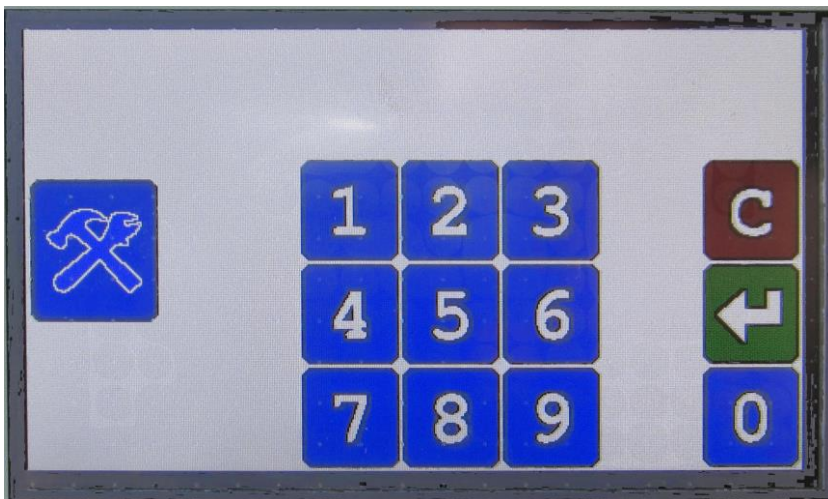
Dosing takes place with the set dosing parameters as long as the dosing parameters as long as the signal is given (e.g. by pressing START continuously or by pressing a foot switch).



5 Changing dosing parameters



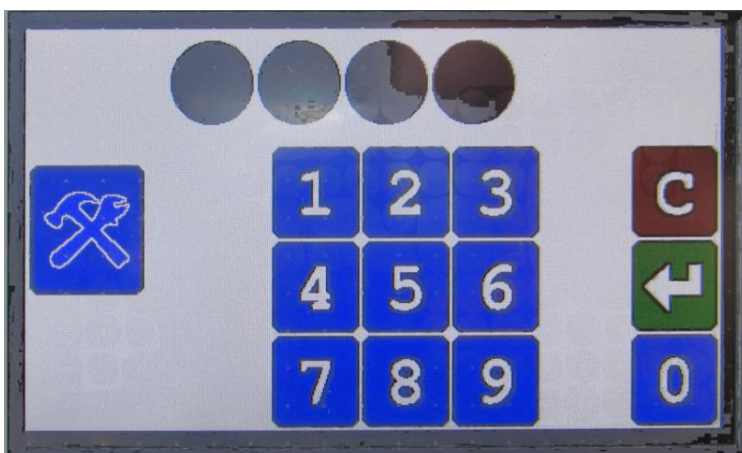
Dosing parameters can be changed only with entering a password



Enter password with NumPad (Password: 2000). Confirm with



Delete entry with



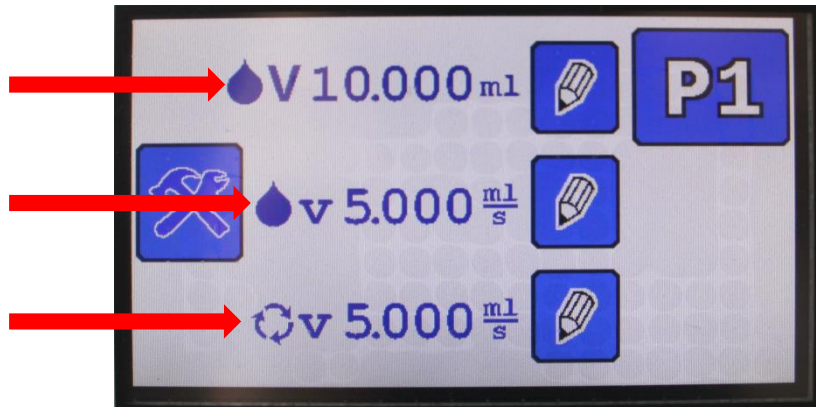
If an incorrect password is entered, the time until the next possible entry is extended.

After successful entry, the settings menu opens.

V = Dosing Volume in ml

v = Dosing speed
 in ml/Second

Continuous dosing
 ml/Second




Touch the "Pencil"-Button, to change dosing settings.

5.1 Changing dosing volume




Touch **C** to delete the value or enter the new value directly.

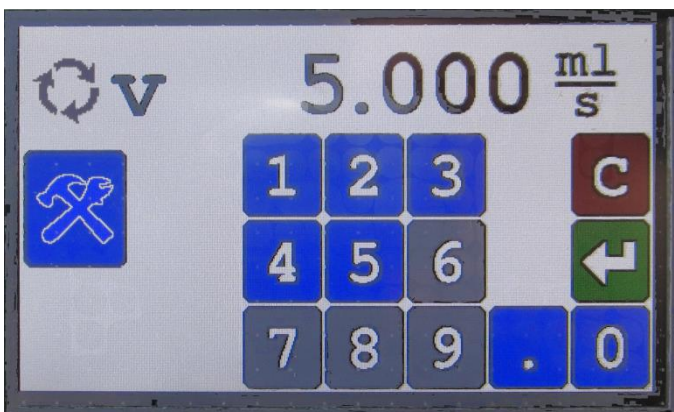
Confirm with .


5.2 Changing dosing speed



Touch **C** to delete the value or enter the new value directly.
Confirm with .

5.3 Change volume of continuous dosing



Touch **C** to delete the value or enter the new value directly.
Confirm with .

Note:

To avoid incorrect entries, values that are not compatible with dosing using this dosing valve are grayed out and cannot be set.

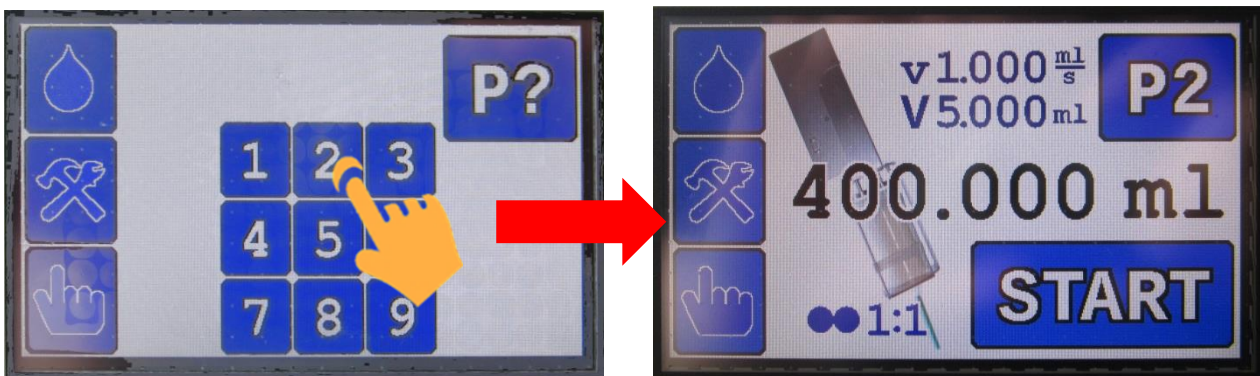
6 Switching program

In the controller, 9 Programs (P1-P9) can be saved and selected.



Touch the "Program"-Button.
 The display switches to the program query.

Select a program number, the program is changed without confirmation.



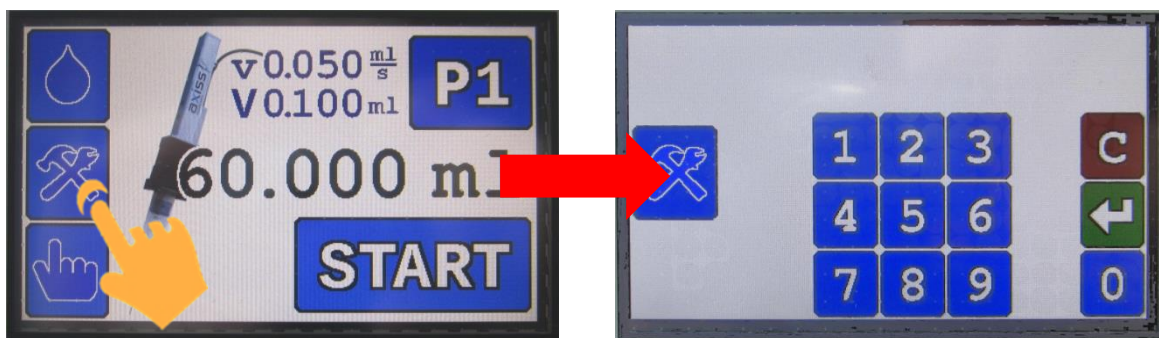
7 Admin Settings

Dosing parameters such as

- Retract volume
- Retract speed
- Speed Home-Position fast
- Speed Home-Position slow
- Speed manually fast
- Speed manually slow

can be changed in the Admin-Submenu.

Touch "Settings"-Button

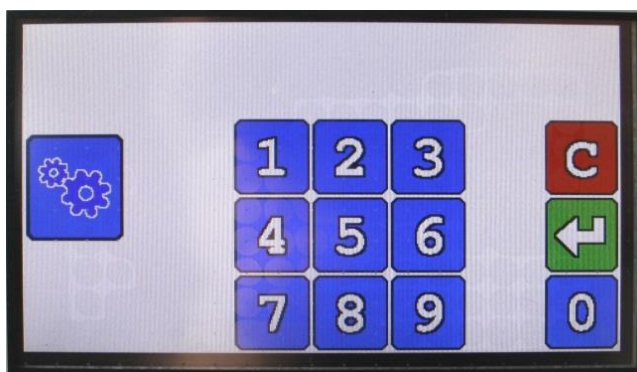


and enter password for SETTINGS

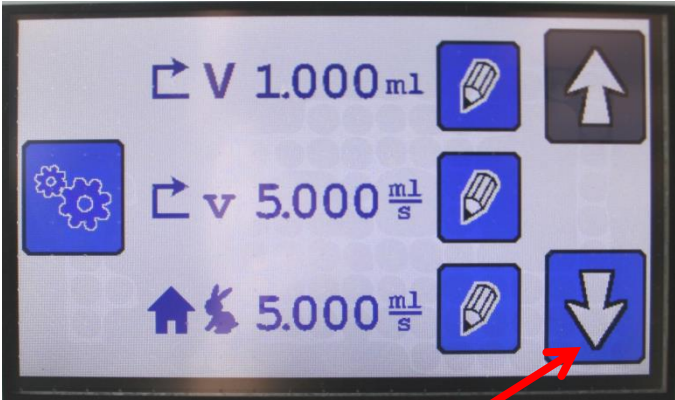
Afterwards touch the button for "Program"-selection:



Touch the button with the gear icon and you will be taken to a new password query.

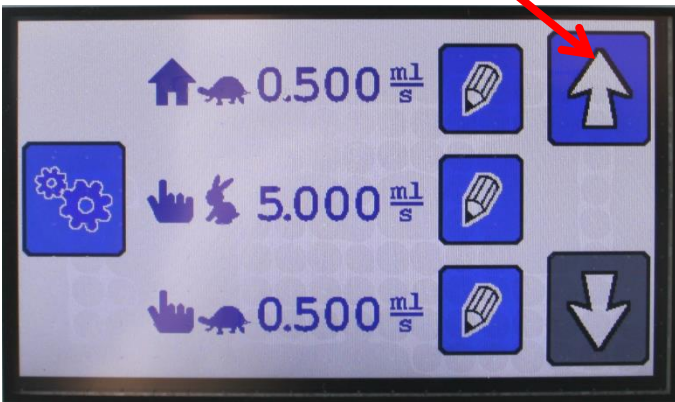


Enter the ADMIN-Password (Passwort:
 2002) and confirm with



- Retract volume in ml
- Retract speed in ml/s
- Home-Position movement speed fast

Scroll down and up with the buttons down and up in the menu to access the following setting options.



- Home-Position movement speed slow
- Manual speed fast
- Manual speed slow

These values can be changed and then saved using the pencil icon.

The settings that do not correspond to the parameter limits of the dosing valve are grayed out.



Example image: Home position
Movement speed slow

8 Dosierung

1. if all dosing parameters have been set and the dosing valve has been referenced, the pistons can be moved into the cartridge in manual mode.
2. if the fill level falls below 400 ml, the value can be set to 400 ml via "Target". The "Start" button becomes available.



3. Touch the "Start" Button, to execute a dosing (Volume- oder Continuous dosing)

During dosing, the "Stop" button becomes available to end the volume dosing prematurely if necessary.



Continuous dosing is carried out as long as the "Start" button is touched and can therefore be ended at any time.

If the cartridge level falls below a defined minimum fill level (less than the set dosing volume in ml), the filling level display turns red.



A further dosing cannot be executed, the "Start"-Button is greyed out.

Erstellung:	Dok.-Stand:	Dokumentverzeichnis:	Seite:
23.04.2024 Kratochwille	30.01.2024	Z:\QMS\20 Produkte\Dosierventile Zubehör\4460-4482 Steuerungen\4480 Touchscreen-Steuerung\Bedienungsanleitung\ba4480e_Touchscreen-Controller e- dispenser 200-400 MA Version2.docx	12 von 14

9 External program change

Program numbers 1 - 7 can be selected externally via pins 5-7 on the 15-pin Sub-D socket (X1).

The externally selected program takes priority over the currently selected program on the control unit itself.

If external control ends, the currently selected program of the control unit is active again!

Overview of Pins:

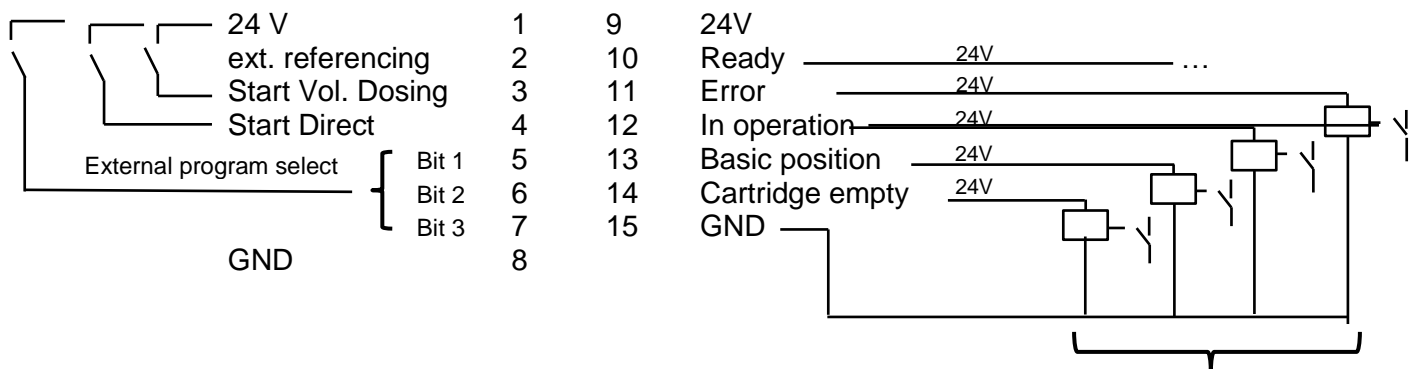
bit1 =5

bit2 =6

bit3 =7

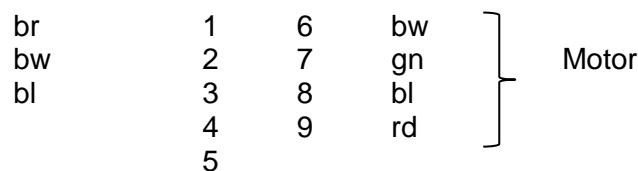
	Prog. 1	Prog. 2	Prog.3	Prog 4	Prog. 5	Prog.6	Prog.7
bit1	X		X		X		X
bit2		X	X			X	X
bit3				X	X	X	X

10 Elektrischer Anschluss 15 pol. Sub-D Buchse (X1)



The relays must be connected externally via potential-free NO contacts.

11 Wiring diagram 9 pol. Sub-D socket (Motor)



12 Wiring connection Sensor

Pin1	Pin 2	Pin3	Pin4	Pin5
24V	Signal END	GND	Error	
	Pin 6	Pin7	Pin8	Pin9
	24V	DIR	GND	STEP

13 Declaration of conformity

In accordance with the EEC machine directive 2006/42/EG of 17. May 2006, appendix II A
 - EG-directive of electromagnetic environmental compatibility (EMV 2014/30 EU)

We hereby certify that the following described controller in its conception, construction and form is in accordance with all the relevant essential health and safety requirements of the EC machinery directive 2006/42/EEC as amended and the national laws and regulations adopting this directive.

This declaration is no longer valid if the controller is modified without our consent.

System /Machine/Product

Produkt: Controller
 Artikelnummer: 4480

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Following harmonized European production standards have been applied:

EN ISO 12100 (Security of machines – General design principles – risk assessment and risk reduction)

EN 60204-1:2006-06 Security of machines – Electrical equipment of machines part 1

Authorized for compilation of documentation:

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Keltern, 23.04.2024 Markus Stölzle



Date / Signature / Company management