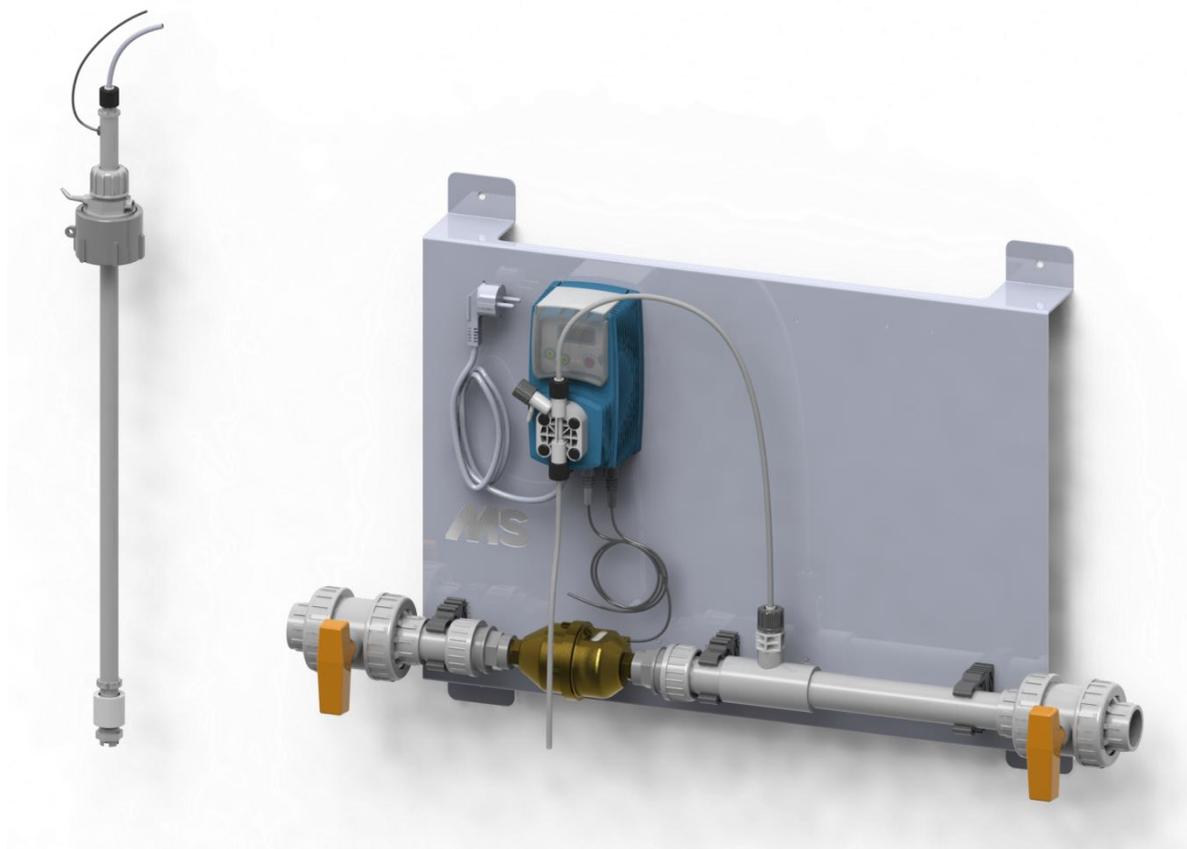


Digi Doser Di-O 2

4309530



MS Water Solutions

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Digi Doser Di-O 2

FOREWORD

Product description

Digi Doser Di-O 2 is a dosing system for adding Di-O-Clean to drinking water systems. The system is equipped with a digital diaphragm pump, which uses pulses from a water meter to deliver correct doses of Di-O-Clean into the water pipeline. The dosing system is specially designed to provide low dosages in an accurate manner.

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Guarantee

- The firm Schippers guarantees this product against manufacturing defects for a period of 12 months.
- The guarantee applies to both mechanical and electronic components as well as for working hours.
- Shipments to the user are covered by the guarantee.
- Movements are at the user's risk.
- The guarantee is valid for the first owner, at the original place of installation.

Excluded from the guarantee:

- Damage caused by improper installation, faults in the pipeline and high water pressure or pressure surges.
- Damage caused by frost, fire, accident, unreasonable use or negligence on the part of the user.
- Damage caused by the presence of iron, water hardness, algae, organic matter or other substances in the water for which the appliance is not suitable. In some cases, water treatment should be provided.

1.2 Parts list

The parts list below relates to the diagram of parts in paragraph 1.1.

Digi Doser Di-O 2 Spare Parts		
Code	Article number:	Description
1	8800410	Di-O-Clean pump, 2.7 litres, 8 bar
2	8804085	Water meter ¾", 2.5 m ³ /h
3	8804083	Mounting plate, SS, 800 x 500 mm
4	8800250	Ball valve, PVC, 40 mm
5	8800221	¾ - coupling 40 x 1½"
6	8800258	Bush, inline, 1½" x ¾"
7	8800244	T-piece 90° 40 x 1½" x 40
8	8800384	PVC pipe, 40 mm, L = 270 mm
9	8800293	Hose clip, 40 mm
10	8800253	Spacer, 40 mm
11	8804546	Dry run protection, LASP, 72 cm
12	8804534	Di-O-Clean can adapter
13	8804514	Digi Doser Di-O Pump head, K
14	8804528	Di-O-Clean Injector, 5 bar, 1/2" 4 x 6
15	8804511	Diaphragm, K
16	8804535	Pressure and suction hose for Digi Doser Di-O, 2 m
17	8804588	Hose fitting kit 3/8" 4 x 6 Di-O
-	8804599	Fuse 1 A

Fig. 1.2 Parts list

1.3 Articles included

Wall mounting

- 4 x threaded bolts Ø 8 x 60 mm
- 4 x plugs bolts Ø 8 x 10 mm

Pressure hose

- 1 x hose from dosage pump to injector

Dry-run protection

- 1 x Dry-run protection set

Venting kit

- 1 x 50 cc Syringe
- 1 x transparent hose (syringe to vent valve)

Operating instructions

- 1 x plastic laminated instruction card

2. INSTALLATION INSTRUCTIONS

2.1 Preparation

We advise you to fit a bypass (fig. 2.1.) around the pump's location. In this way, you can continue to use the main pipeline and easily maintain a water supply to your animals during maintenance or in case of any fault.

A supply of clean water and proper pressure are prerequisites for proper dosing system function. If the water supply is not optimal, you can install an additional water filter and/or pressure regulator (see Fig. 2.1):

1. Water filter (4309554)
2. Pressure regulator (8804050)

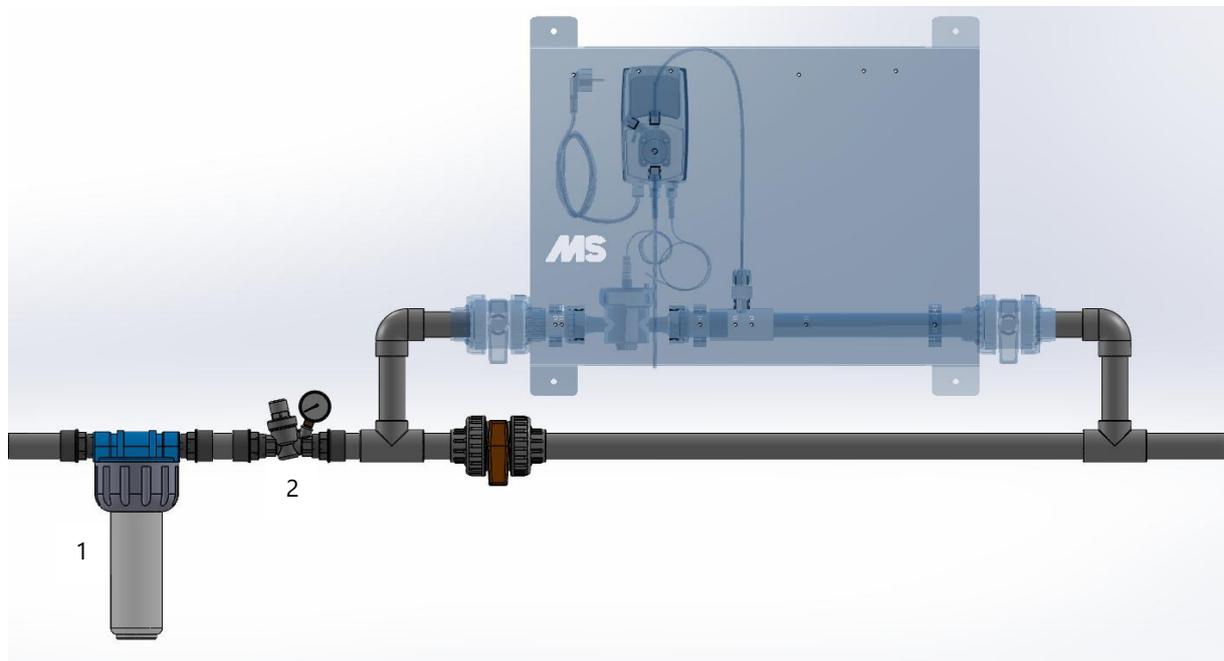


Fig. 2.1 Diagram of the bypass

3.2 Technical specifications of the pump

Max pressure	: 8 bar
Minimum Flow rate	: 15 litres per hour
Nominal flow rate	: 2,500 litres per hour
Maximum flow rate	: 3,000 litres per hour
Maximum injections per minute	: 180
Injection per impulse	: 0.25 cc at 5 bar
Pump output	: 2.7 litres per hour at 5 bar
Working temperature	: from 0 to 45 °C.
Voltage	: 230 VAC
Power use	: 16 W
Dimension (mm)	: 942 mm x (H) 500 mm x (D) 237 mm
Weight	: ± 10 kg
Protection rating	: IP 65
In/output connections	: 40 mm PVC

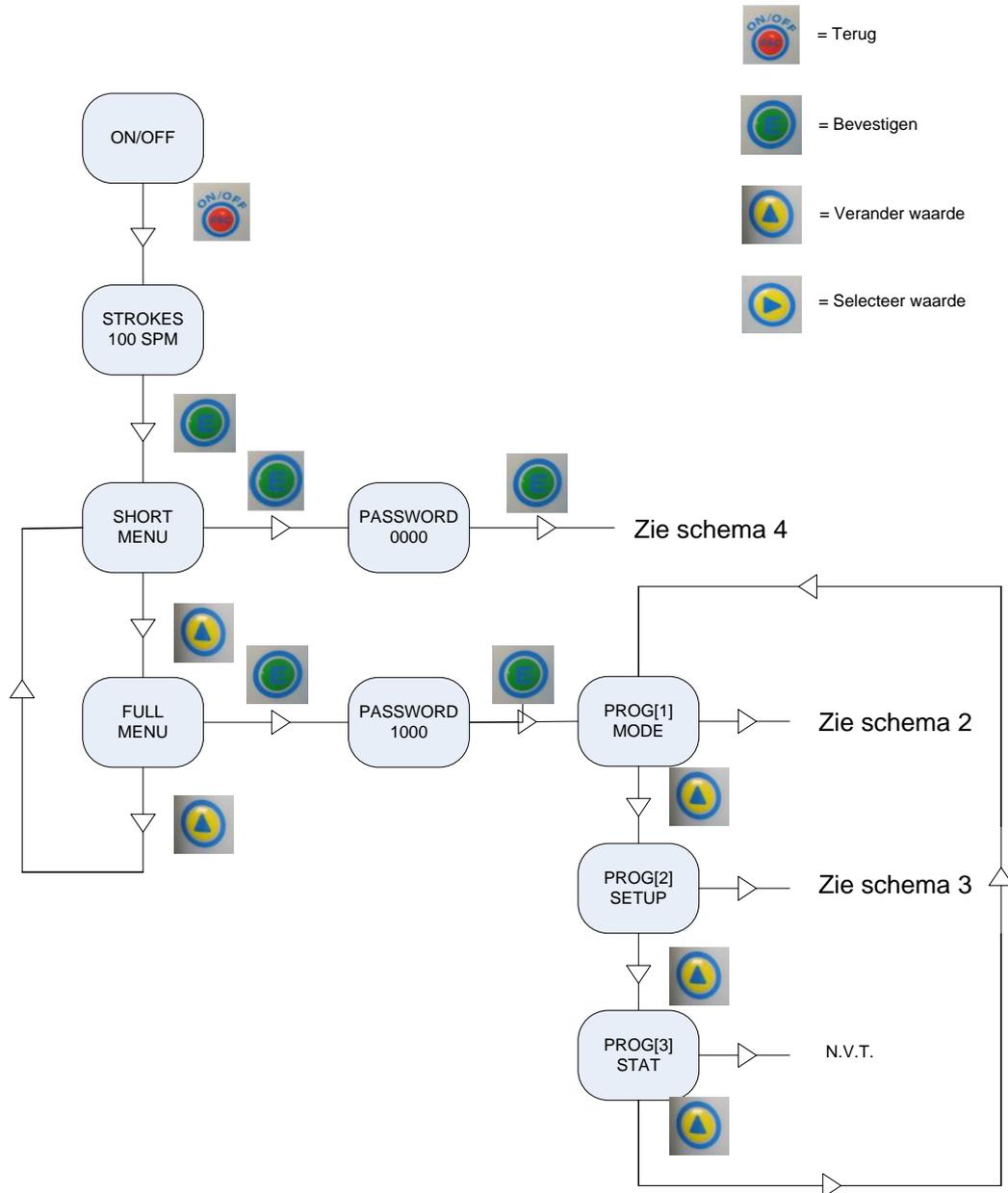
4. SETTINGS

4.1 Factory settings

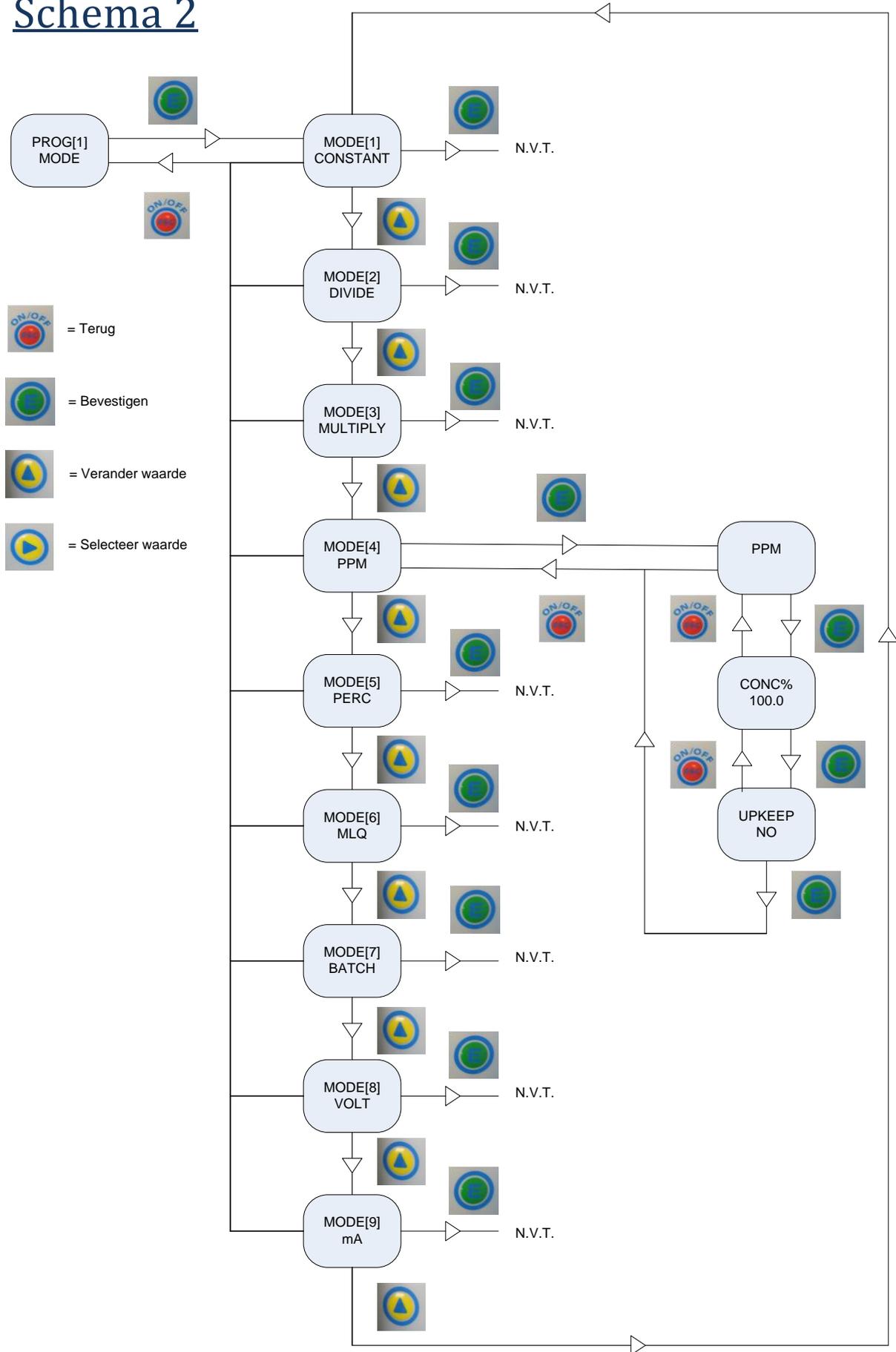
The following settings are pre-set in your dosage pump:

CC per impulse (CC/ST)	: 0.25
TEST	: 100 impulses
Reserve in supply tank (LEVEL)	: 02.000 litres
Water meter pulses (WMETER)	: 002 per litre
Unit (UNIT)	: litre
Short menu password (PASSWORD)	: 0000
MODE (4)	: PPM
Dosage	: PPM
CONC%	: 100
Upkeep	: NO

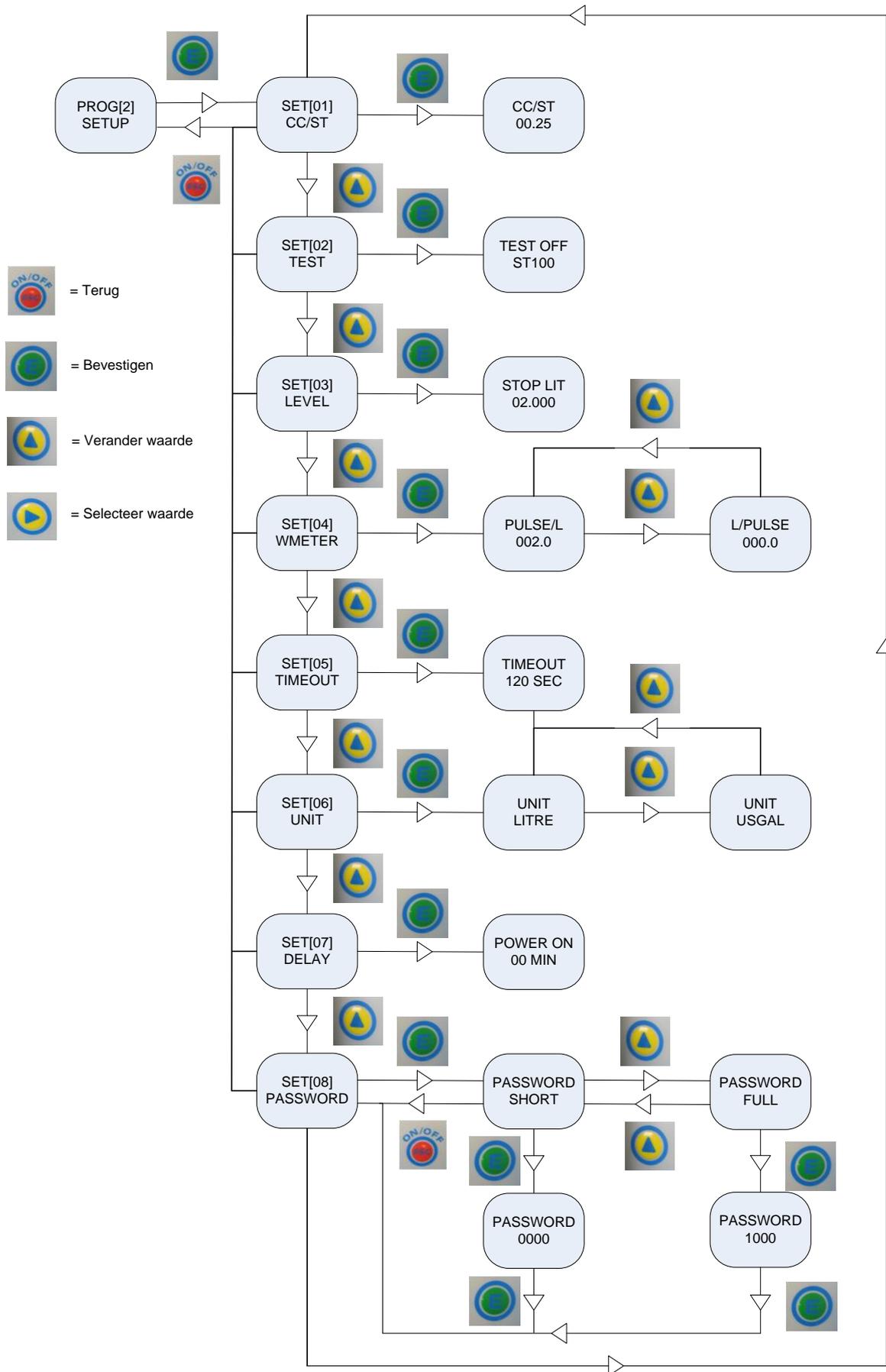
Schema 1



Schema 2



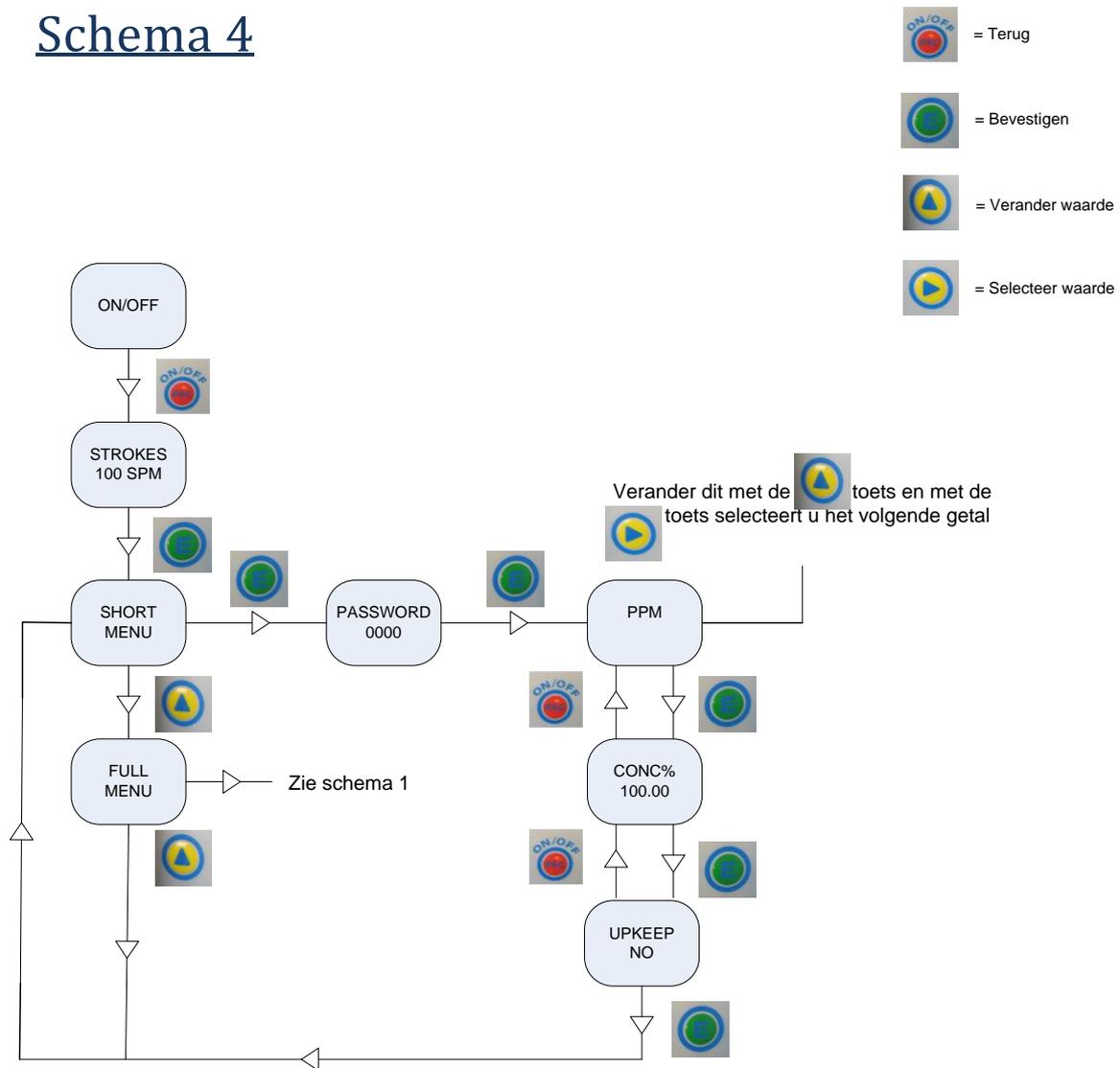
Schema 3



4.2 Modifying dosage

Follow the steps below to modify dosage:

Schema 4



After modification, and when you are back in the short menu, press the ESC button twice to go back.

5. MAINTENANCE

5.1 Cleaning the pump

When the pump has been idle for an extended period, we advise flushing the device by sucking up a few litres of clean water.

6. TROUBLE SHOOTING

PROBLEM	CAUSE	SOLUTION
Fault handling	General	Press ⏻ until "alarm" shows in the display. Then press ➡ to see notification of the fault in question.
Dosage is not accurate	Wrong setting	Check the percentage or PPM, concentration and number of water meter pulses
	Excessive pressure	Set the pressure to Max. 5 bar while water is released by the pressure reducing valve
	Foot filter blocked or defective	Clean or replace the foot filter
	Pump head valves, foot filter or injector blocked or damaged.	Replace or clean the defective or dirty parts
	Electromagnet not delivering sufficient power (dull sound)	Send the pump to the repair service
Dosage too high	Injector Wrong injector mounted Defective injector	Check the injector (number 5 on the injector)
Product/water drains back into the supply tank	Defective/dirty injector or valve	Replace/clean the injector and/or the valves
	Checking the injector	Screw the pressure hose off, and if water leaks from the injector, replace it Or Screw the pressure hose off. Let the pump dose. Seal the pressure hose with your thumb. If the injector remains blocked with enough pressure, → replace it.
The water meter is running and no product is dosed	Carry out the following test: Disconnect the water meter cable from the pump and connect the dry-run protection cable to it. Take the foot valve out of the supply tank and move the float up and down.	The pump should now inject with the movements of the float. If it does not, you should send the pump in for repair. If it does work, you need to replace the water meter's sensor, cable or the whole meter.

PROBLEM	CAUSE	SOLUTION
Strange symbols show on the display or certain pump functions are no longer accessible through the buttons	Fault on the printed circuit	Reset. Switch off the pump with the "ESC" button. Take the plug out of the power outlet. Press both arrow buttons and hold them down while reconnecting the power plug. The screen shows "load default" Reprogram the pump. If this does not succeed, you should send the pump in for repair.
Display/pump does not work	Power supply interrupted	Check the power supply
	Faulty fuse	Screw off the cover on the back of the pump and check/replace the fuse. If the problem recurs, send the pump in for repair
	Defective printed circuit	Send the pump to the repair service
Alarm "low level in the tank" # flashing (→alarm 1 level)	To pump the tank completely empty, a certain number of reserve litres are programmed. The pump keeps on working until this reserve is gone.	Possibly modify the reserve setting for the supply tank.
Pump doses continuously	Press  and read the mode from the display	Check the settings % PPM Continuous Impulse/litre (not litre/impulse)