

User manual



**HONEY DISPENSER WITH SCALE,
GEAR MODULE, 230V
SN_FM1**

The manual covers the device with the code:

SN_FM1

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1 Notes on this manual

Before using the device, read the user manual carefully and follow the instructions contained therein. The manufacturer is not liable for damage caused by using the device for purposes other than those for which it is intended or by improper operation.

Please note that the illustrations in this manual are schematic. Due to the continuous improvement of our devices, the images and details may differ from your device model.

Definition of terms and symbols

- **Change resolution** - the value of the change after pressing the [plus] or [minus] button once.
- **Operating modes:** dosing, pumping, uncapping, spinning, drying, cleaning, etc.
- **Status:** start (device operation) or stop (device standby).

The following symbols are used in this manual:

	Important information and useful tips for use
	Warning regarding situations that may pose a risk to health and/or the product
	Warning about the risk of electric shock
	Warning about the risk of injury
	Warning about the risk of burns
	Warning about the risk of cuts

2 General safety instructions

Safety instructions apply to all products in general

	<u>Risk of electric shock</u> Protect the electronic connections of the power supply from moisture. Ensure that all cables and wires are laid out in such a way that they cannot be damaged, crushed, or have their insulation damaged. Never open the drive module, power supply, or plugs.
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Risk of injury

Be careful not to let your hands (or hair, clothing, etc.) come into contact with moving parts while the device is in operation.



Risk of burns

Be careful not to touch hot parts with your hands (or hair, clothing, etc.) while the device is in operation.



Risk of cuts

Be careful when using the device, as it has sharp edges.

2.1 Electrical safety

- a) The device must be connected to a socket with grounded outlet with the voltage specified on the product's rating plate.
- b) The electrical installation must be equipped with a residual current device with a rated operating current of no more than 30 mA. Check the operation of the circuit breaker periodically.
- c) Periodically check the condition of the power cord. If the non-detachable power cord is damaged, it should be replaced by the warranty provider or a specialist repair shop in order to avoid danger. Do not use the device if the power cord is damaged.
- d) In the event of damage to the device, repairs may only be carried out by a specialist repair shop or a qualified person.
- e) Before connecting the device to the mains, make sure that the switch on the control panel is in the "0" position.
- f) Ensure that the rated voltage of the device and the power source are compatible.
- g) Be careful when connecting to the mains.
Your hands and the surface on which the device stands must be dry!
- h) Do not pull on the power cord. Keep the power cord away from heat sources and sharp edges, and ensure that it is in good condition.
- i) Protect the motor and controls from moisture (including during storage).
- j) When disassembling or cleaning, it is strongly recommended to switch off the device and unplug it from the power outlet.

Damaged parts must be replaced immediately.

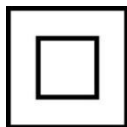
Protection classes of shock protection): **Protection of electrical** **against and electrotechnical equipment from the point of view of electric** **(Conventional) (Conventional designation**

• Class I



Class I devices have basic insulation that provides protection against direct contact. In addition, in order to ensure protection against indirect contact (protection against faults or additional protection), a protective terminal, protective conductor (PE) or protective neutral conductor (PEN) is connected to the device. This achieves: -protection by automatic power cut-off through the use of appropriate devices, -limitation of touch voltages to levels not exceeding the safe touch voltage (UL) set for given environmental conditions.

- **Class II**



Class II devices are characterized by the use of reinforced insulation, which provides protection against both direct and indirect contact. Another way to ensure protection against electric shock in Class II devices is to use basic and additional insulation. Since reinforced or additional insulation is used, it is not necessary to connect the device housing to a protective earth conductor, and devices of this class can be powered, for example, by with IEC C7 connectors (so-called "figure eight").

- **Class III**



In Class III devices, protection against electric shock is provided by supplying very low voltage (ELV) not exceeding the permissible safe touch voltage (UL) for the given environmental conditions.

2.2 Safety of use

- The equipment is not intended for use by persons (including children) with limited physical, sensory, or mental abilities, unless under supervision. Ensure that children do not play with the device.
- The surface on which the device stands must be dry!
- Protect the controls and motor from moisture (also during storage).
- Do not use the device near flammable materials.
- The device may only be operated indoors.
- The device must not be stored when the ambient temperature is below 0°C.
- The device should not be switched on when the ambient temperature is below 5°C. Before starting up, if it has been moved from a room with negative temperature to a room with a positive temperature, wait until it reaches ambient temperature.
- All covers must be securely attached to the device during operation.
- In the event of damage to the device, repairs may only be carried out by a specialist repair shop or a qualified person in order to avoid danger.
- In the event of any danger, switch off the device immediately. The device may be restarted once the danger has been eliminated.
- The device must be placed on a level surface before starting work.
- Do not move the device during operation.
- No maintenance while the device is in operation.



- Do not remove covers while the device is in operation!



- Do not repair the device while it is in operation!



- p) After each use (or at least once a day), it is essential to clean and visually inspect the following components: gears/rack and pinion/pump head pipes, dispensing nozzles, seals, connectors, hoses, etc.

3 Contents

It is recommended that you check the delivery for completeness immediately after unpacking the device in accordance with the table below.

Item	Quantity	Name
1.	1	Dispenser
2.	1	Hose with a length of 1.5 meters and a diameter of Ø20
3.	1	Hose with a length of 0.5 meters and a diameter of Ø20
4.	3	MPC hose clamp Ø20
5.	1	Vertical pipe Ø12x400mm
6.	1	Vertical pipe Ø12.x170mm
7.	1	Dosing nozzle (non-drip cap)
8.	1	230 V power cable

Missing parts or damage must be reported immediately in writing/by telephone to the company or distributor – no later than two working days from the date of delivery of the new device. After this period, we do not grant you the right to replacement/further delivery of parts at our expense.



Wear parts are excluded from the warranty without exception. All wear parts must be checked regularly for damage and signs of wear and replaced if necessary. Porous, leaky, or worn parts must be replaced immediately. Working with damaged parts can have a detrimental effect on the service life, electronics, mechanics, and functionality of the machine, as well as on the quality of the dispensed liquid.

The service life of wear parts depends, among other things, on the fluid being dispensed, the duration and type of use, and environmental conditions (temperature, aggressive vapors, etc.). Even not using the machine can affect the service life of wear parts, as the aging processes of components vary.

4 Technical data

4.1 Intended use

The device is designed for dispensing honey. The device may only be used with items offered or supplied with the device. The company is not liable for any damage caused by the use of components from other manufacturers.

4.2 Technical characteristics

- Power supply: 230 V
- Power: 50 W
- Filling range: 50–2,000 g.
- Filling capacity: 180 kg/hour (at a honey temperature of 37°C).
- Total height of the device: 500 mm.
- Total width of the device: 200 mm.
- Total length of the device: 330 mm.
- Dimensions of the weighing surface (tray): 190 x 140 mm.
- Dispensing nozzle height adjustment: manual.
- All parts that come into contact with honey are made of stainless steel or food-grade plastic.
- Small dimensions allow for different machine settings even in limited space.
- Automatic jar taring before each dispensing.

4.3 Fuses

❖ Electrical

The device is protected by a fuse (5 A) designed as a fuse switch. Once it has fulfilled its function, it becomes damaged and is no longer suitable for use. It must be replaced after the source of the fault has been removed.



Never attempt to repair or short-circuit the fuse, as this is life-threatening. Spare fuses are not included in the set, but they are widely available. **If the micro fuse you have just inserted is immediately damaged, please contact our service department or distributor at .**

5 Startup and cleaning

5.1 Unpacking and setup



The device should not be used or stored in unfavorable conditions, such as high humidity, water vapor, aggressive or acidic fumes, extreme temperatures, dust, etc.

After unpacking, remove the protective films.

To ensure optimal operation of the device, it is recommended to:

- Place the device on a level, stable table or work surface. Maintain the ambient temperature between 15°C and 35°C.
- Wait about an hour before starting it up for the first time to avoid damage to the electronics caused by water condensation (this only applies if you're bringing the device from below-freezing temps to above-freezing temps—due to significant temperature differences or climate conditions during transport).
- Connect the device only to a tested and undamaged power outlet.

5.2 First use and cleaning



Before use, wash the device thoroughly with hot water and a small amount of cleaning products approved for use on food contact surfaces.

5.3 Adjusting the device to the height of the container or jar.

To change the height of the dispensing nozzle, loosen the screws on the connector. Screw "A" - horizontal adjustment, screw "B" - vertical adjustment (photo below). After setting the nozzle to the appropriate height, the recommended distance from the edge of the jar is 1 cm, tighten the loosened screw.



Photo 1. Adjusting the height of the dispensing nozzle



When adjusting the height of the dispensing nozzle, take special care not to damage the jar, container, or device.

5.4 Liquid suction

Filling the rotor with honey

1. Connect the hose connecting the dispensing nozzle to the gear module (length 50 cm - "1"). Connect the second hose, 150 cm long - "2," to the other side of the gear module (photo below).
2. Then pour about 0.5 kg of honey into the end of hose no. "2".
3. Hold the hose upright until the honey flows into the gear module. The hose is transparent, so you can see when the honey reaches the rotor.
4. Place hose "2" in the container from which you will pour the honey, and place a jar under the dispensing nozzle to vent the gear module and hoses.
5. After venting the system, you can proceed to set the desired weight of honey dispensed into the jars.



Photo 2. Connecting hoses to the gear module and dispensing nozzle

6 Honey processing

6.1 Preparing the device for operation

Ways of positioning the device and the honey tank:

- The device should be higher than the tank and the end of the hose should be inserted into the tank. The device can be a maximum of 1.5 m higher than the tank (measured from the end of the hose in the tank to the hose inlet to the pump – red arrow) (see photo 6.1.3. - A).
- The device and the tank are at the same level and the end of the hose is inserted into the tank. (see photo 6.1.3. - B).
- The tank is above the device and the end of the hose is connected to the tank outlet – direct connection. Suction is not necessary, static pressure acts on the pump head and the device does not need to suck in liquid (see photo 6.1.3. - C).

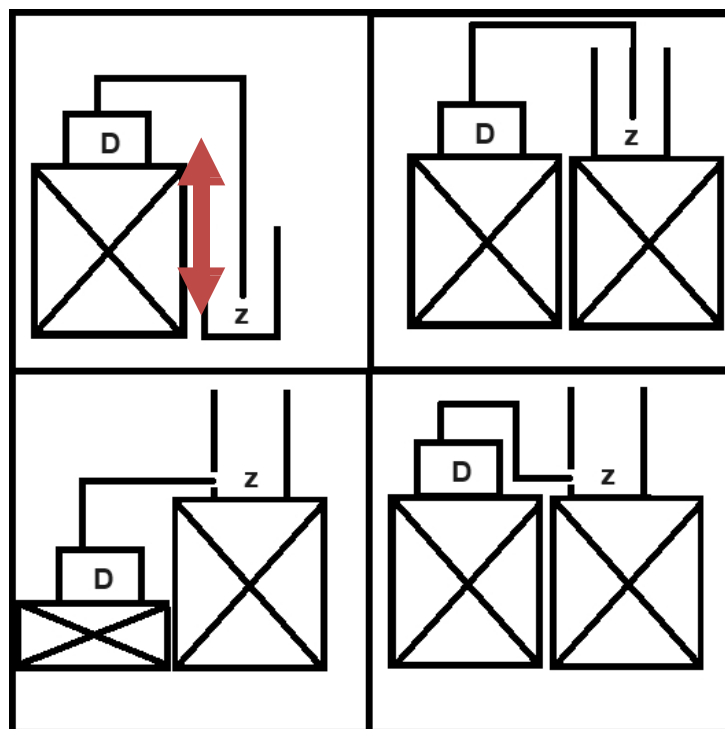


Photo 3. Ways of positioning the device and the honey tank

- D. The device and the tank are at the same level, and the end of the hose is connected to the tank outlet (see photo 3. - D).

Settings C and D (see photo 3. - C and D) is recommended, but may cause a decrease in dosing accuracy as the amount of honey in the tank decreases (less honey dosed). Settings A and B (see photo 3. - A and B) are the least recommended, as the device may suck in air during operation, which reduces the accuracy of operation (less honey dispensed). In all settings where the hose is inserted into the tank, it is recommended to use a check valve to prevent honey from flowing back into the container (see photo 3. - A and B).

Note! Please note that the vertical check valve only works correctly in a vertical position. Therefore, prevent the hose from falling to the bottom of the tank, which would cause the check valve to be set in a semi-horizontal or completely horizontal position when the hose lies on the bottom of the tank.

Suction problems can be solved as follows:

If you experience suction problems, check for leaks in the following areas:

- Hose connection to the pump,
- Hose connection to the check valve (if applicable).

6.2 Preparing honey for dispensing

Honey must be:

- Filtered to remove wax residue and other solids.
- In a liquid state.
- Recently stirred to compensate for temperature differences (differences in homogeneity) in the tank.

7 Control



Do not operate the control film with your fingernails or hard objects, as this may cause scratches and damage to the surface. In addition, never use aggressive detergents or abrasive materials.

Technical parameters of the controller

Dosing weight setting range:	Weight	50g – 2000g / 2oz – 70oz
measurement resolution:	Minimum	1g / 0.1oz
weight setting resolution:	Weight	1g / 0.1oz
setting memory capacity:		6: (A/B/C/D/E/ F)

Start screen

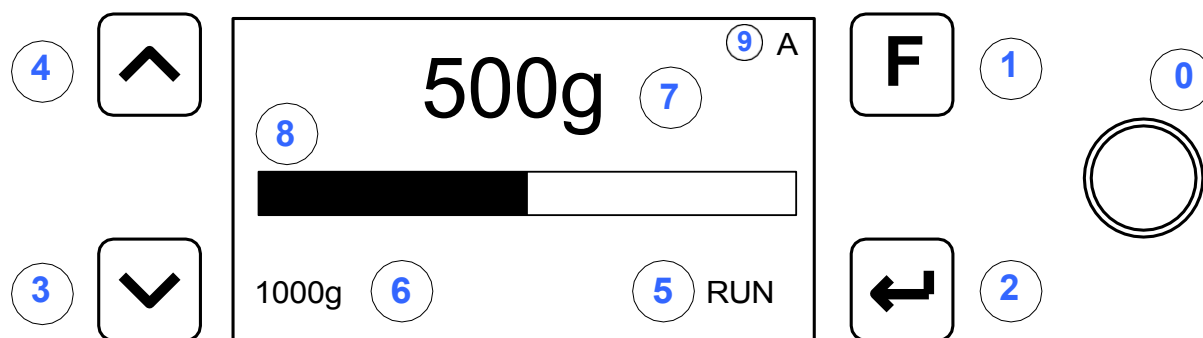
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Screen visible immediately after turning on the controller.

The name of the device and the software version are displayed at the bottom.

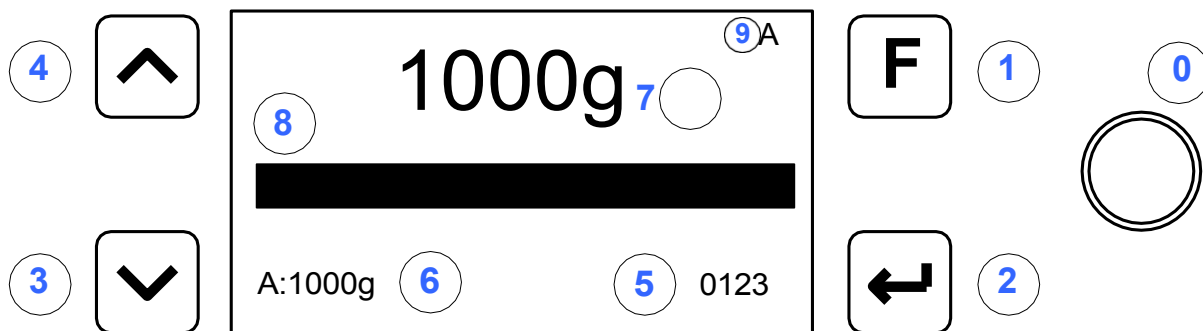


Dosing I – dosing of any weight. The dosing weight is set using buttons (3) and (4).
The weight setting is visible in the lower left corner of the screen (6).

ELEMENT	FUNCTION
(0) (start/stop)	Pressing the button briefly starts the dosing process. Pressing the button during the dosing process will stop the process.
(1) F	Pressing the button briefly (< 0.5s) alternates between the controller's operating modes. Available modes: Dosing I / Dosing II / Service.
(2) Enter	A short press of the button (< 0.5s) will trigger the taring action of the
(3) - / ↓ (4) + / ↑	Pressing the button changes the value of the mass setting that will be dispensed.
(5)	Display field showing: TARE taring process in progress RUN , dosing pump started, dosing in progress STOP dosing pump stops xxxx dosing cycle counter reading
(6)	Display field accepting readings: xxx g weight xxx to be dosed Default (factory) value 500g.

(7)	Display field showing the current weighed mass. If the safety feature detecting excessive dosing time is activated, the message TIMEOUT will appear in this field. The message will disappear after changing the operating mode or restarting the dosing process. If the automatic taring function is inactive and the weight measured before filling exceeds the set filling weight, the filling process will not start and the message STOP will appear in field (7). If, during filling, the device registers a sudden drop in weight (a drop of at least 10g), the controller will immediately stop the pump and the message E-STOP will appear on the display for 3 seconds.
(8)	Filling progress indicator.
(9)	Auto Start active function indicator Auto Start is a function which, when activated, causes the dispenser to automatically start dispensing the set weight. Dispensing is initiated when an increase in the specified weight is detected on the dispenser's weighing pan.

Mode: Dosing II

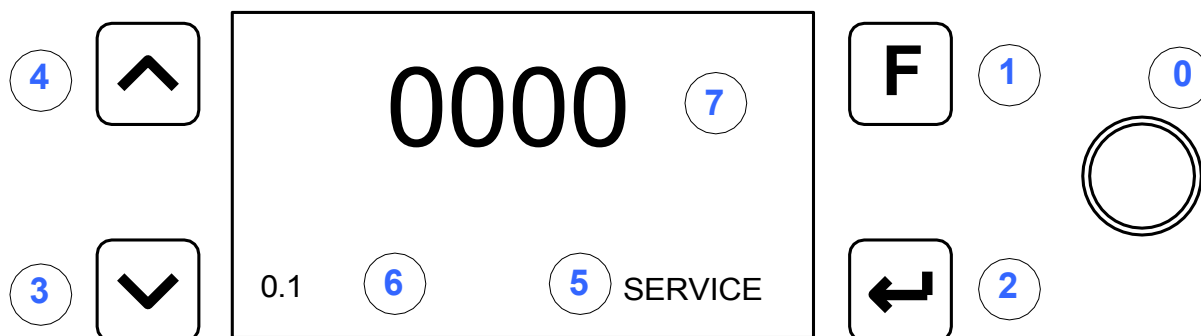


Dosing II – dosing of the weight previously stored in the controller memory. The controller memory index is selected using buttons (3) and (4).

Selection visible in the lower left corner of the screen (6)

ELEMENT	FUNCTION
(0) (start/stop)	Pressing the button briefly starts the dispensing process. Pressing the button during the dispensing process will stop the process.
(1) F	A short press of the button (< 0.5s) alternates between the controller's operating modes. Available modes: Dosing I / Dosing II / Service.
(2) Enter	A short press of the button (< 0.5s) will trigger the tare action of the weight display. Pressing the button for a long time (>2s) allows you to edit the weight value assigned to the selected memory index. Exit the edit mode by pressing the F button.
(3) - / ↓ (4) ↑	Pressing the button changes the index of the mass dispensing memory cell and, during editing, the mass value assigned to the memory index.
(5)	Display field accepting indications: TARE taring process in progress RUN dosing pump started, dosing in progress STOP dosing pump stops EDIT mass editing for selected memory index xxxx in progress dosing cycle counter display
(6)	Display field accepting indications: X:xxxg memory index X: (A...F) and weight xxx to be dosed Default (factory) value A:50g, B:100g, C:250g, D:500g, E:750g, F:1000g.
(7)	Display field showing the current weighed mass. If the safety feature detecting excessive dosing time is activated, the message TIMEOUT will appear in this field. The message will disappear after changing the operating mode or restarting the dosing process. If the automatic taring function is inactive and the weight measured before filling exceeds the set filling weight , the filling process will not start and the message STOP will appear in field (7). If, during filling, the device registers a sudden drop in weight (a drop of at least 10g), the controller will immediately stop the pump and the message E-STOP will appear on the display for 3 seconds.

(8)	Filling progress indicator.
(9)	Auto Start function indicator Auto Start is a function which, when activated, causes the dispenser to automatically start dispensing the set weight. Dispensing is initiated when an increase in the specified weight is detected on the dispenser's weighing pan.

Mode: Service


Service – a mode that allows you to enter the appropriate code and then, depending on the code, activate the appropriate controller action.

ELEMENT	FUNCTION
(0) (start/stop)	<i>Set code 0000</i> Pressing the button starts the dosing pump. Releasing the button stops the pump. The pump operates at 100% speed. The Timeout function is inactive. <i>Code 9999 set</i> Pressing the button alternately starts and stops the dosing pump. The pump operates at 100% speed. Timeout function inactive.
(1) F	Pressing the button briefly (< 0.5s) alternately switches between the controller's operating modes. Available modes: Dosing I / Dosing II / Service.
(2) Enter	A short press (<0.5s) confirms the entered code and activates the action assigned to the code.
(3) - / ↓ (4)	Pressing the button changes the value of the code being entered.

(5)	Display field showing: SERVICE selected service mode
(6)	Display field showing the controller software version.
(7)	Display field showing the currently set code.

Controller configuration, supported codes

CODE	FUNCTION
99	Code specifying the operation of the fill start button in service mode
0000	Code specifying the operation of the filling start button in service mode
0001	Code for resetting the dispensing cycle counter
0002	Code for calling up the statistics menu
0003	Controller configuration menu call code
3142	Return parameter settings to factory defaults

Menu operation

DESCRIPTION	FUNCTION
F	Exit the edit mode of the selected parameter/function.
Enter	Start editing mode for the selected parameter/function.
(- / ↓) (+ / ↑)	Select the parameter to edit (using the up/down arrow keys) and then, after entering edit mode, change the parameter value (increase or decrease).

Statistical data menu – code 0002

POSITION	FUNCTION
Total no.	Fill count value. Clear by editing and then pressing the (- / ↓) or (+ / ↑) button. Readings without units.
Total m	Total value of the dosed mass. Clear by editing and then pressing the (- / ↓) or (+ / ↑) button. Display in kg. In order to ensure correct calculation of the total dosed mass, The filled container must remain on the weighing pan for at least one second after the dispenser pump has stopped operating.
Exit	Exit the menu. By pressing the Enter button with Exit selected, the controller exits the selected menu and enters Dosing I mode.

Controller configuration menu – code 0003

POSITION	FUNCTION
Calibration	A parameter that allows you to correct the weighing process. The following example explains how the parameter works: (Weighing setting: 500g, calibration setting: -10g) Result: the dispenser pump motor will stop after pumping 490g. The missing 10g is an allowance for short-term honey leakage of honey immediately after the pump stops working. Setting range: -20g - 0g. Default setting 0g.
Auto.tare	When this function is enabled, the controller will perform taring each time before starting dispensing. ON/OFF indicators
Auto.start	A function that starts dosing when a specific weight is detected on the weighing plate. Display OFF (function inactive) or weight that starts dosing (setting range 50g - 200g). The active Auto Start function is indicated by is display letter A in right upper corner of the display. Default setting 50g.
Start delay	Setting for the automatic start delay of dosing. Dosing will start when the weight measured on the weighing pan exceeds the value specified by the Auto.start parameter and when this condition (exceeding the weight) persists for the time defined by the Start delay parameter. Setting range 0.5s-5.0s , default setting 0.5s.
Unit	Selection of weight display units. Choice of g / oz. Default setting g.
Vmax	Maximum rotational speed of the dispenser pump motor. The dispensing process control algorithm will not set the speed above this value. Setting range 100% - 75%. Default setting 80%.
Vmin.	Minimum rotational speed of the dosing pump motor. Algorithm The dosing process control will not reduce the speed below this value. Setting range 50% - 20%. Default setting 30%.
m.Vdrop.	Percentage indicator of the amount of mass remaining to be dosed, after which the control algorithm will start to reduce the speed of the pump drive. The reduction is linear – changing the value from Vmax to Vmin. Setting range 100% - 50%. Default setting 50%.
Timeout	A parameter defining the maximum length of time that can elapse from the start of the dosing process to the moment when an increase in mass of at least 20g must be recorded. If, despite the time set in this parameter, the increase in weighed mass does not reach the appropriate value, the controller will immediately disconnect the motor power supply and the following message will appear on the device screen message: TIMEOUT. Setting range 1s to 10s. Default setting 4s.
Exit	Exit the menu. Press the Enter button with Exit selected. The controller exits the selected menu and switches to Dosing I mode.

Error messages

Detection of a disturbance/error preventing further operation of the controller is signaled by the display of an error code message. The controller can be restarted after: turning off the power supply, removing the fault, and turning the power supply back on.

A0 – (+ / ↑) button pressed or stuck A1 – (- / ↓) button

pressed or stuck A2 – F button pressed or stuck

A3 – Enter button pressed or stuck

A4 – Start/Stop dosing button pressed or stuck A5 – Overload of the mass sensor (strain gauge) power supply circuit A6 – Internal controller error 1

8 Cleaning the pump head (gear module)



CAUTION!

THE PUMP HEAD MUST NEVER BE RUN DRY, I.E. WITHOUT FLUID. WITHOUT THE LUBRICATING PROPERTIES OF THE FLUID, THE GEAR MODULE COULD BE DAMAGED OR DESTROYED.



Before starting maintenance, pull out the mains plug!

The dispenser must be thoroughly cleaned before first use and after use. When cleaning, take special care to prevent moisture from entering the motor and the control unit (at the cleaning time can be covered with waterproof material).

After washing, dry the device thoroughly. Before each season, perform an additional technical inspection, and if a fault is detected, contact the service department or distributor.

The device is washed in two stages: preliminary and final (disinfecting):

- Preliminary stage - used to rinse honey from the nozzle and dosing module. Do not disassemble the device after bottling. Immediately after working with the device, place the suction hose in a container with warm water and pump approximately 40 l of heated water to rinse the pump or dispenser module. For this operation, prepare approximately 40 l of water heated to a temperature of 50°C to 60°C. This process protects the device from damage that may be caused by crystallized honey (i.e., seal rupture and honey leakage). If the device is not rinsed properly, the seal on the pump module shaft will rupture. Damage to the seal due to improper cleaning of the module is not covered by the warranty.
- Final disinfection phase - as in the first phase, prepare approx. 40 l of heated water to which you can add a disinfectant intended for equipment that comes into contact with food, then rinse thoroughly and dry.

9 Cleaning and maintenance



ATTENTION!

THE PUMP HEAD MUST NEVER RUN DRY, I.E. WITHOUT FLUID. WITHOUT THE LUBRICATING PROPERTIES OF THE FLUID, THE PLASTIC GEARS COULD BE DAMAGED OR DESTROYED.

The fluid in the pump head acts as a lubricant and sealant.

Regular cleaning after each batch of dosing or once a day of all parts in contact with the liquid is necessary to keep abrasive particles away from the pump head and to ensure continued proper operation of the pump head and to maintain the rights under the warranty agreement. During each cleaning, check that the user-accessible seals, gears, and pump head body are free of damage and replace them if necessary. In principle, the drive module does not require maintenance.



IMPORTANT!
BEFORE STARTING THE MAINTENANCE YOU MUST DISCONNECT THE PLUG
POWER SUPPLY.



IMPORTANT!
During the warranty period, drive modules may only be opened by the manufacturer or specialized personnel authorized by the manufacturer. Unauthorized opening of drive modules (damage to the warranty seal) will result in immediate loss of warranty rights.



IMPORTANT!
The use of high-pressure washers is prohibited due to the risk of flooding the control housing and cables. Damage resulting from failure to comply with these recommendations will not be covered by the warranty.



IMPORTANT!
Covers/guards made of metaplex should be washed with soap and water at a temperature of 25°C.
CAUTION!
Do not use products containing ALCOHOL (alcohol causes cracks and microcracks in the metaplex).

Before first use and after finishing work, the device should be thoroughly washed and dried. During washing, take special care to prevent the motor and control elements from getting wet (they can be protected with a waterproof material during washing).

The device should be washed with hot water and agents approved for contact with devices used in the food industry, remembering to protect the electrical components. After washing, rinse the device thoroughly with clean water and dry it. No parts of the device should be maintained with chemicals.

After a long period of non-use, thoroughly clean and visually inspect the functional parts of the device before using it again. Before each season of use, perform a technical inspection and, if any faults are detected, contact the service department or distributor.

10 Transport and storage

Storage

After use, the device should be thoroughly cleaned and dried. Store in dry rooms at a temperature above 0°C. If the device will not be used for a long period of time, it is recommended to clean it, pack it, and protect it from damage and contamination.

Transport

To prepare the device for transport, disassemble it according to the delivery instructions. To avoid damage, all parts of the device must be thoroughly cleaned and any residue from use must be removed. The device must also be properly secured against damage and falls.



It is recommended to storage retaining the original packaging for
 storage storage and possible return.
The manufacturer disclaims liability for damage resulting from improper transport or storage.



To facilitate repair of the device, please contact the service department or your dealer before shipping. This will enable quick verification of the device upon its arrival.

If you need our help in arranging transport for your device, please contact us:

- **Customers in POLAND: contact customer service,**
- **Customers outside POLAND: contact your dealer.**

REMINDER:

The device delivered for repair must be clean. Otherwise, additional cleaning fees may be charged.

11 Disposal

Used products should be returned to selective waste collection organized by Municipal Electrical and Electronic Waste Collection Points. Consumers have the right to return used electrical equipment free of charge to the distributor's network, provided that the returned equipment is of the same type and performs the same function as the newly purchased product.

12 Warranty

The products are covered by a manufacturer's warranty: **24 months**.

A receipt or VAT invoice is issued for purchased products.

Warranty conditions:

In order for a complaint to be considered, it is necessary to provide proof of purchase (invoice or receipt) or confirmation of the transaction by payment card.

The complaint process begins once all the required documents have been submitted. To speed up the process, please provide the following information:

- Device model,
- Product code/serial number,
- Year of manufacture
- Detailed description of the problem (photos and videos are welcome).

Complaints can be submitted in writing to the distributor or directly on the website: **<https://lysonserwis.pl/>**.

In the case of manufacturing defects, the customer must return the product to the place of purchase.

The company will replace the defective parts at no additional cost. If the customer agrees to install the parts themselves, the replacement parts will be sent directly to the customer or distributor.

The following are not considered manufacturing defects: defects caused by: use of the product contrary to its intended purpose or contrary to the manufacturer's guidelines, disassembly of electrical equipment without consulting the manufacturer, improper operation, mechanical damage.

Operation of the device:

The device should be used in accordance with the operating instructions.

Declaration

I declare that I have read this operating manual, that I understand its contents, and that I have no doubts regarding the safe operation of the device. I declare that I have been trained in the operation of the machine and the principles of safe working practices. I undertake to follow the instructions and to use the safety devices provided for this machine. If any part of the manual is unclear to me, I will not start the machine and will contact my supervisor for clarification.

[illegible]

WARRANTY CARD

NAME

TYPE OF DEVICE

ENGINE

TECHNICAL DATA

VOLTAGE

GENERAL REMARKS

DATE OF MANUFACTURE

DATE OF SALE

DEVICE CHECKED

SIGNATURE OF THE
PERSON AUTHORIZED TO
ISSUE THE WARRANTY

COMPANY STAMP

Service card	
Date	
Description of fault	
Signature of service technician	
Date	
Fault description	
Service technician's signature	
Date	
Fault description	
Service technician's signature	

