

Instructions Manual FFAZ – ARTEMIA Automatic Feeder



Technische Änderungen vorbehalten. Für Druckfehler übernehmen wir keine Haftung. 07/2017

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Important information before using:

Safety Informations: read it before use !

In this specification the following icons and symbols are used. These important instructions concerning personal safety and the safety of operations.

"Security Alert" indicates that the instructions are followed exactly to avoid danger or injury to persons and to prevent damage to the device.

Risk of electric shock on electrical components!

**“””Always before the first start of the ARTEMIA feeders”””
leave them empty the feeders run through at least 20 times**



Please note:

**Before removing any panel is the first plug
to draw!**

**Do not reach for the power plug connected to electrical components
and contacts! There is a risk of
Electric shock hazard to health and / or death.**

!!!!!!! BEFORE OPENING UNPLUG!!!!!!!

To property damage, personal, non-use or improper handling and following the safety instructions and are caused, we are not responsible! Similarly, we assume no liability for any resulting damages!

In all such cases, one will immediately cease any warranty claim.

For safety and licensing reasons, unauthorized modification and / or modification of the device is permitted in any way.

The FFAZ – Artemia Feeding system must not to extreme temperatures, strong vibrations or heavy mechanical stress.

The FFAZ – Artemia Feeding system is not a toy and does not belong in the hands of children! There is a risk of a fatal electric shock.

The FFAZ – Artemia Feeding system may ac power source to operate only on a 230V/50 Hz with our ARTEMIA CONTROL.

Do not try this FFAZ – ARTEMIA Feeding system to operate with an other Voltage, likes the Datasheet.

The FFAZ – Artemia Feeding system may place just over a fault protection circuit breaker (RCD 30 mA) on a properly grounded electrical outlet in the protected area and water at least 2 m from the water's edge fiindication, in a watertight enclosure. We recommend the placement (electronic control and power supply / distribution units, power 230 V/50 Hz) completely in the near farm buildings in a dry area to prevent any moisture on these devices to exclude. This is for your personal safety!

Use the FFAZ-Artemia Feeding system is not in bathrooms or in adverse environmental conditions where combustible gases, vapors or dust of any kind are or may be present!

The FFAZ-Artemia Feeding system is not in flood-prone areas or in areas such as valleys and hollows which collect rain water can be drawn up and put into operation.

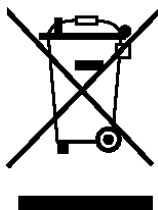
If necessary work on the feeders FFAZ first plug is to remove the machine, or pull the plug.

About prone repair may be performed only by trained personnel.

Packaging material can not be careless, plastic bags - plastic, polystyrene parts, ect, ect, can be very dangerous for children to a toy.

In commercial establishments of any kind, the accident prevention regulations of the

To observe professional trade association for electrical systems and equipment.



Environmental concerns:

This product may not be the end of its life separately from normal household waste, but must be taken to a collection point for recycling electrical and electronic equipment. The symbol on the product, the instruction manual or the packaging indicates. The materials may be recycled in accordance with their markings. By reusing, recycling or other forms of utilizing old devices, you can make an important contribution to protecting our environment. Boards of the electrical components are coated with gold.

Equipment or defective components, you must also return us to recycle - or for residue - recovery.

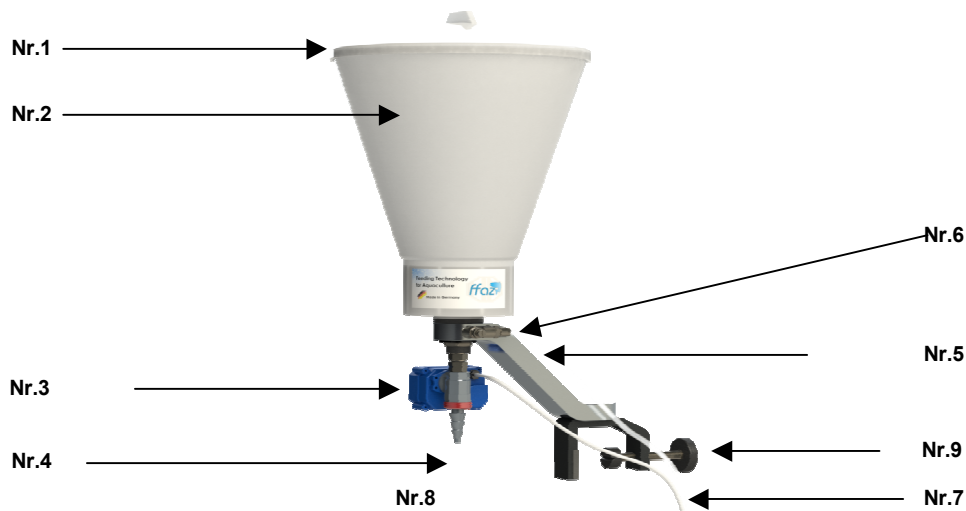
Before Start the FFAZ Artemia Automatic Feeder

Start at least 20 times without filling Before putting the FFAZ brine shrimp feeders.

Even after a prolonged standstill, this is carried out so that the electrolytic capacitors of the engine valve can be charged.

FFAZ Artemia Automatic Feeder with Timer and Control

Description FFAZ Artemia Automatic Feeder:



Description of Individual components FFAZ Artemia Automatic Feeder

- Nr. 1 Cover open/close
- Nr. 2 Artemia Bottle 5 Liter
- Nr. 3 motorized Valve
- Nr. 4 Silikon Hose
- Nr. 5 holding Rod
- Nr. 6 Air check valve
- Nr. 7 Cable with Plug for motorised Unit
- Nr. 8 House for Air pressure appr. 1 bar
- Nr. 9 Retaining clip for Feeder to 60 mm clamping

Mounting the FFAZ Artemia feeders at the poolside

By means of the terminal no. 12 with a clamping range of up to 60 mm, the automatic feeder can be screwed almost at each matching event. The terminal has the corresponding rubber protection to protect the basin edge.

In addition, a distance block of plastic or wood are inserted into the remaining space of the distribution for the forces acting on the water's edge.

Connecting the connecting cable - Control for automatic feeder

Take the connecting cable and plug the black 3 pol. Plug in the No. 7 socket of the feeders. The plug has a nose and so can not be plugged twisted. Lay the connection cable from the edge to the location of the controller.

The laying of the cable, we recommend to carry out an appropriate plastic pipe, to protect against damage. Plug the connector for the control in a socket of the controller.

Functional test - Timer - Electronic control - FFAZ - Artemia Feeder

Plug the controller into the socket, set the control to 1 min. Pause and 1 sec. Feeding, turn the timer to continuous operation.

Scroll through this function several times. Thus, the electrolytic capacitors of the engine valve can be charged.

Maintenance - repair - Other:

FFAZ Artemia Feeder can be divided into the following modules

- Containers with lid
- Container 5000 ml
- Screw vessel
- Use of Artemia
- Airblower Stone threaded M5 x 5 mm
- Threaded insert Artemia with air valve and with O-sealing rings
- Unit engine valve
- Ball valve special
- Bottle holder with attachments

Dismantling can be done with commercially available tools.

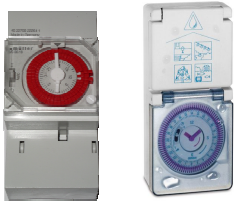
During assembly, note the following:

The seals have to be provided with silicone grease for breathing bottles for divers all threads to wrap single with Teflon tape then leak test with water.

WARNING

The automatic feeder must not be subjected to a shock or other knocks!

Timer mechanically 230V



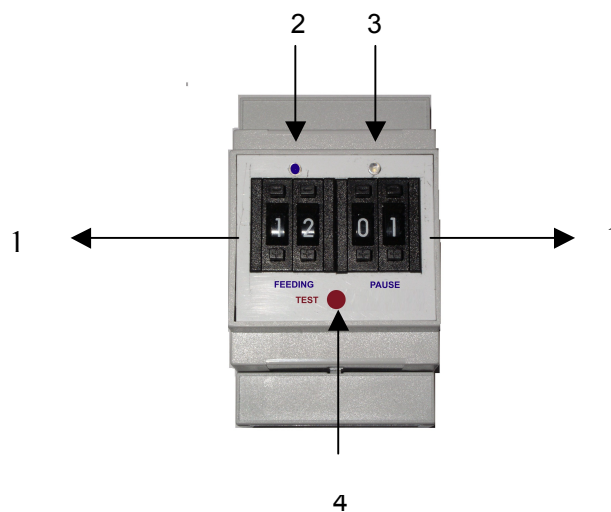
Mechanical Timer; Synchronous without reserve; Day program; Movement; shortest switching time 15 min; programmable every 15 min; captive switch segments; Hand switch for: times for ON / OFF / automatic; Switching capacity 16 A / 250 V AC, in Outdoor use (IP54).

START Feeding: Time 06:00 - STOP FEEDING: 09:00 - for Example

Electronic control ZK 812

Description of control:

The controller operates in flip / flop mode - it always starts first with the "break - time" is this expired automatically starts the "Feeding-time". This rhythm break - Feeding - pause - Feeding - pause ... etc. runs within the set start / stop time of the mechanical clock / timer 230 V.



1. Coding: Feeding 1-99 sec / switches:.. Pause 1-99 minutes.
The code switches are equipped with the buttons +/- . When pressing the + button in always one step at a number incremented. By pressing key - to a number counted down.

NOTE: Do not use the Codeswitch if the time of Feeding in Seconds is working !!!!!

1. **Feeding – LED**
Lit continuously during the course of the set Feeding Time in Seconds.
2. **Pause - LED**
Flashes every second within the specified "Start / Stop Time" timer switch mechanically 230 V.
3. **Test**
By briefly tapping the button, the machine starts feeding to feed after the set time feeding the code switch.
This test button can be used to control the feeding behavior of the fish to correspondingly optimize Fütterzeit - more or less feeding time per feeding interval by adjusting the code switch feeding.
automatic
The typed switch returns automatically to the Automatic position, the program therefore continues automatically.
4. **break - off (rotary switch position 00)**
The switch position "00" the whole program is stopped. In the background, the control advances but operates "without feed".
This feature allows any short-term work on the pond / pool to carry out, refill bottle ect.

The living Artemia located in the feed containers are conveyed by means of an automatically operated motorized valve to discharge.

The automatically operating valve opens the discharge during the set Fütterzeit the control expires. After the set feeding time, the valve closes automatically the discharge without re-power the controller.

The aerator the Artemia in the container are mixed evenly, aerator required infinitely variable.

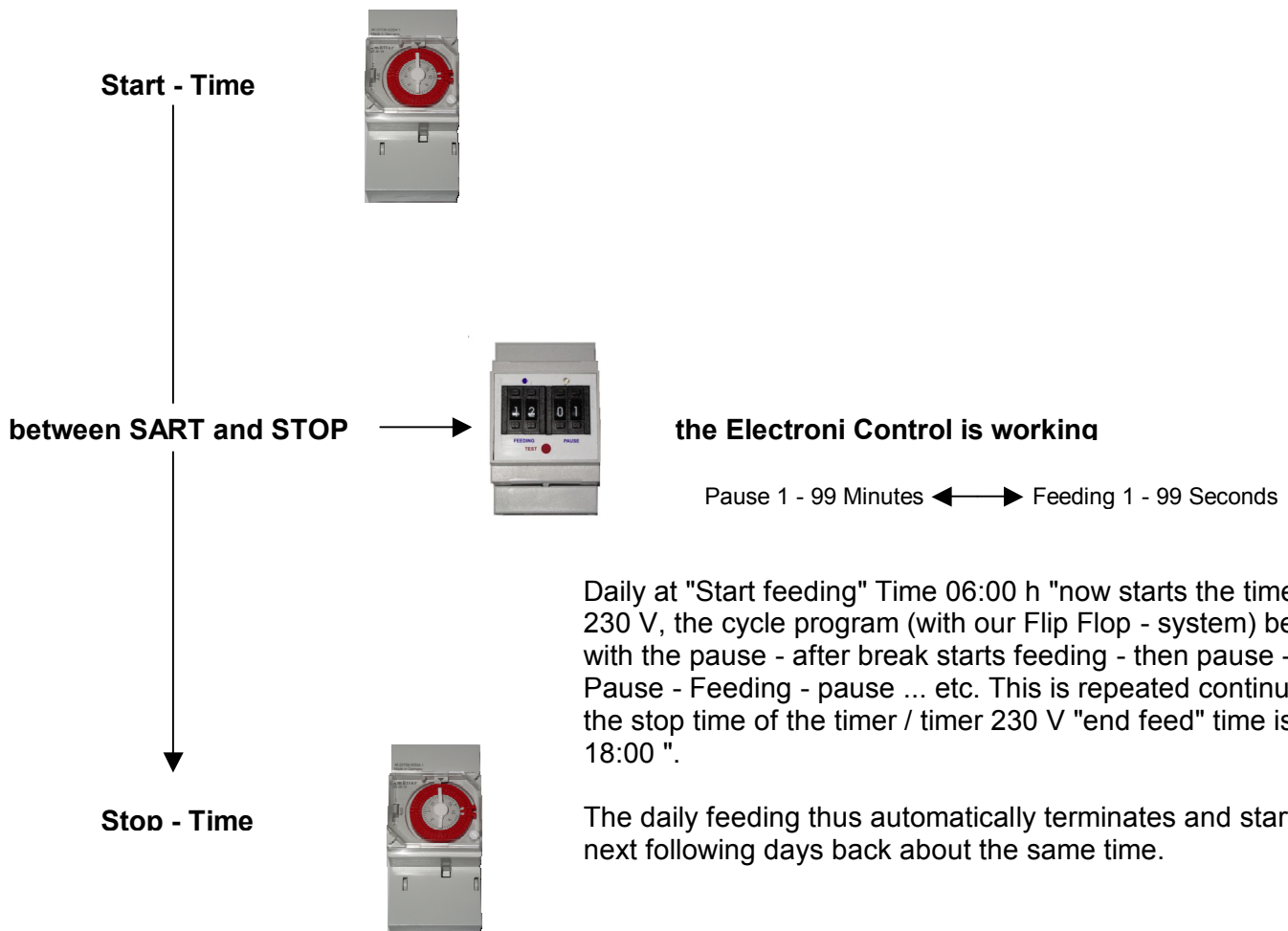
Frozen Artemia Feeding:

also frosted Artemia can be feeding
 fill up the frozen Artemia to your needs into the Bottle
 Fill up with water
 switch the Air Bubble Stone on
 wait evenly until the Artemia are thawed
 start the feeding

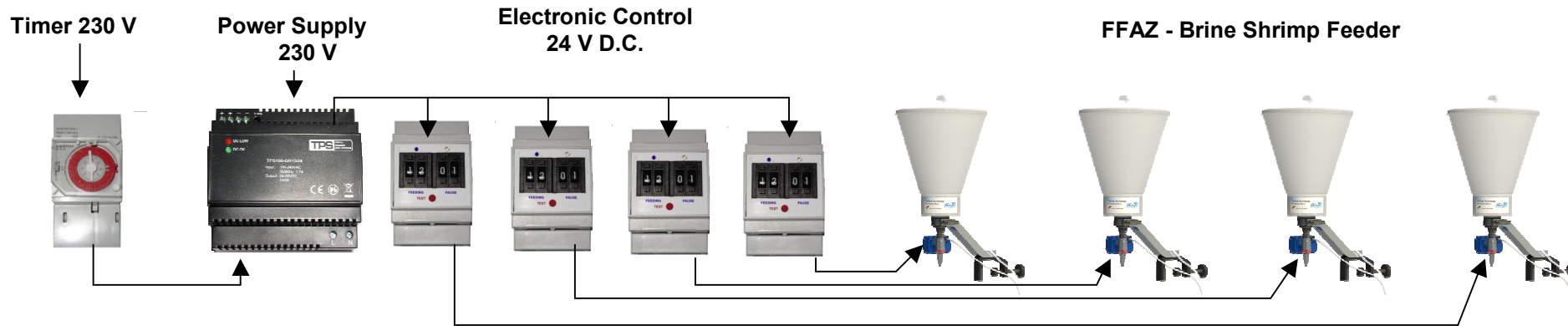
Calculation of Feeding:

Setting: feed 1 seconds
 Feeding performance: appr.. 26.13 ml / sec.
 Number of feedings: appr. 76 feedings **2 Liter** filled
 Number of feedings: appr. 229 feedings **6 Liter** filled

Example Timer - Electronic Control - Settings:



Constellation - Electronic Control 230 V – 4 FFAZ – Brine Shrimp Feeder:



Timer 230 V - Power Supply 230 V and Electronic Control mounted in the Electrical Cabinet - ready to use



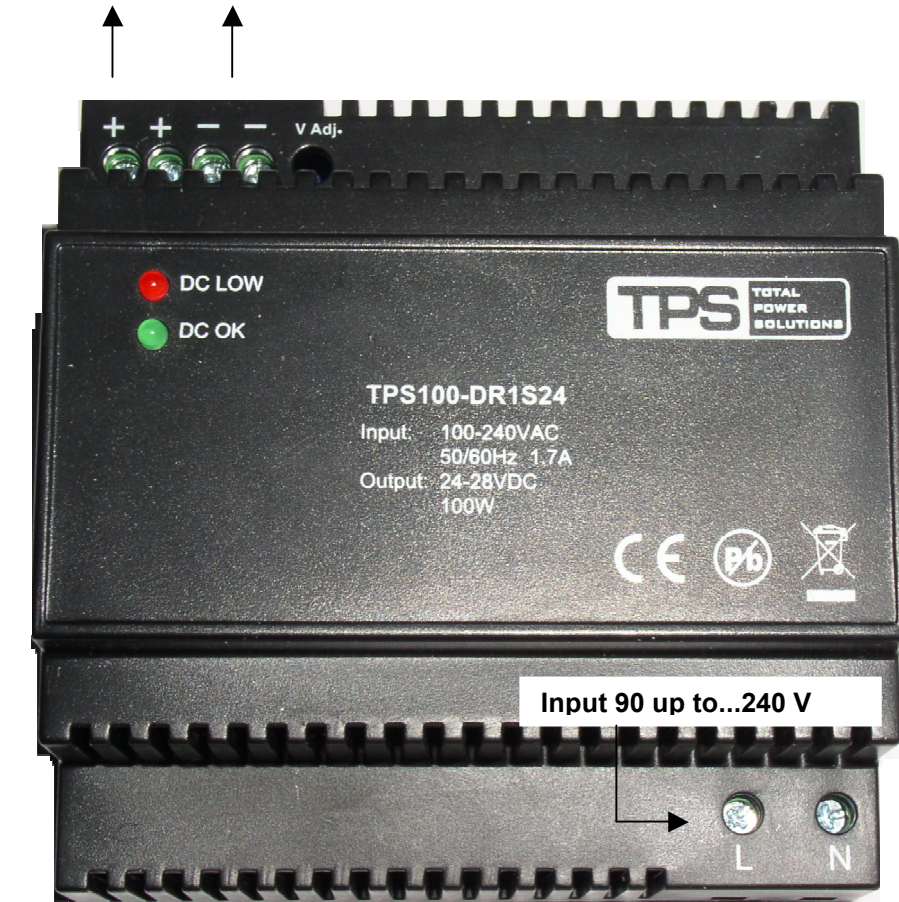
Electrical Cabinet

Power Supply
Timer 230 V
Electronic Control

every Feeder will have his own
Pause Time 1..up to 99 Minutes
Feeding Time 1..up to 99 Seconds

Description POWER SUPPLY 90 V A.C. up to 240 V A.C.

Output Channels 24 V D.C.



Specification:

Max. Output Power: 60 W
Nominal Voltage: 24 V
Voltage Tolerance: 24-28 V
max. Load: 2,5 A
min. Load: 0,1 A
Ripple: < 30 mV
Noise: < 50 mV
Voltage Range: 90-264 V A.C
Frequency: 47-63 Hz
Overvoltage Protection: 30 V
Overloaded Protection: 72 W
Overcurrent Protection: 3,0 A

Special Features:

Universal AC Full Range Input
Simple snap on DIN Rail System
Protections: Overcurrent, Over Voltage, Over Load
Compact Enclosure
Low Ripple, low noise
100% full load burn in Test
Safety Norm
EN60950-1, CE, RoHs
Warranty: 3 Years
EMC
EN61204-3, EN55022 B, EN55011 B, EN61000-6-2,
EN61000-4-3, EN61000-4-2, EN61000-4-4, EN61000-4-5,
EN61000-4-6, EN61000-4-8, EN61000-4-11
EMI
FCC-B, CISPR22 B

Start-up only in closed rooms and only with closed clear cover!

Maintenance and repair only by trained personnel