

Tap Density Tester

User Manual



Distribué par :

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1 Precaution

1.1 Provision for operation reliability

- The following environmental influences have to be kept:
 - humidity is not above 80°C /
 - temperature is not below 5°C / °F or above 50°C / °F

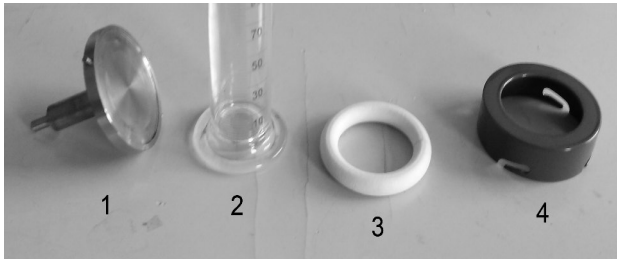
1.2 Provision for your safety

- You should not work in a hazardous area. The motor is not explosion-proofed.

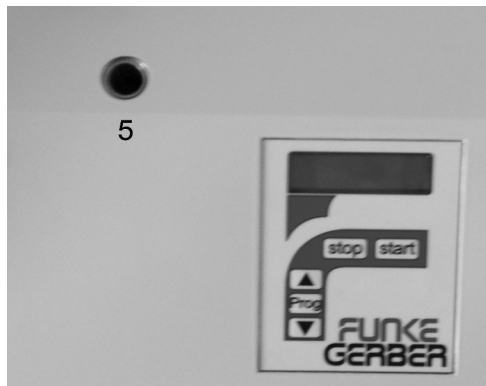
2 Initiation

2.1 Insert stamp

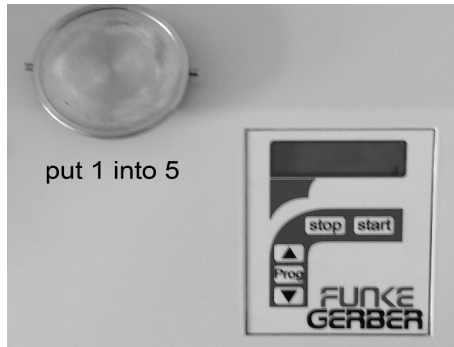
To obtain the correct functionality of the device, it has to be secured that the equipment (see pic.1) is applied correctly to the TDT (see pic.1-6).



picture 1: equipment of the TDT



picture 2: front view of the device



picture 3: placed stamp

Put the stamp (1) in the hole at the top of the device (5) such that the stamp is not rotatable while he is in (an anti-twist protection is applied by the stamp).



picture 4: installing measuring tank

Put the measuring tank (2) on top of the stamp (1).



picture 5: installing silicone ring

Put the silicone ring (2) over the measuring tank (3).



Abbildung 1: installing the locking cap

Install the locking cap (4) such that the silicone ring (3) is pressed down onto the measuring tank (2) and the tank is in a fixed position. The powder which must be measured can be filled in measuring tank before or after installation

of the stamp.

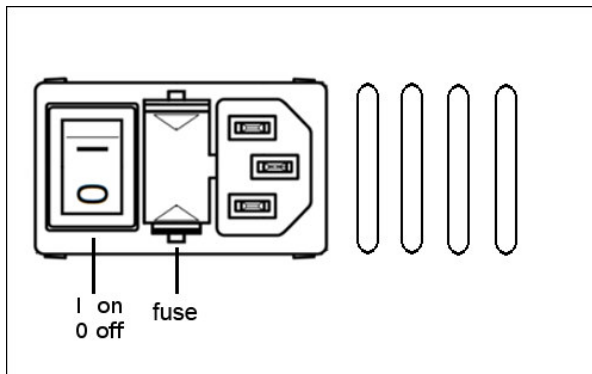
The device is now ready for measuring.

2.2 Start device

The cable has to be put in the socket at the back of the Tap Density Tester (see pic.7) and the button has to be set to I (on) (see pic.7).

3 Device handling

3.1 Layout of the back side

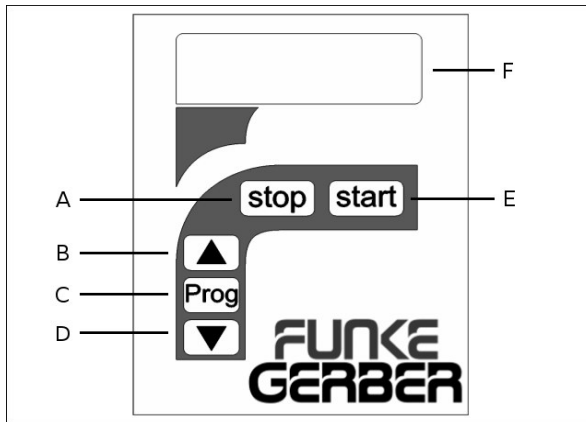


picture 6: back panel

If the fuse has to be replaced you need a model T0.5A with the size of 5mm x 20mm.

3.2 Display and Handling

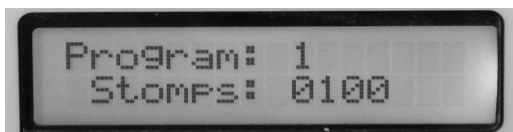
Below different display states will be shown (F, see pic.2).
On the basis of this the handling of the device will be explained.



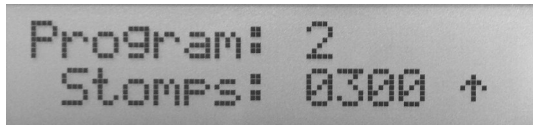
picture 7: operation unit

3.2.1 Display state 1

F: Home screen



picture 8: Homescreen



picture 9: choose program / tap count

button	pressed (short)	pressed (hold)
A / stop	back to home screen	
B / up	add 5 to the number of taps	add 5 faster to the number of taps the longer pressed
C / Prog	choose from predefined program	
	program number	number of taps
	1	100
	2	300
	3	525
	4	1350
	5	2000
	6	2500
	7	4000
8	7000	
D / down	lower tap count by 5	lower tap count by 5 faster the longer pressed
E / start	starts tapping with choosen number of taps (default program: Program 1)	

3.2.2 Display state 2

F: Running state



picture 10: device is running

button	pressed (short)	pressed (hold)
A / stop	stops tapping and change to home screen	
B / up	no function	
C / Prog	no function	
D / down	no function	
E / start	no function	

3.2.3 Display state 3

F: program finished



picture 11: program finished

button	pressed (short)	pressed (hold)
A / stop	change to home screen	
B / up	no function	
C / Prog	no function	
D / down	no function	
E / start	Starts tapping with number of taps defined last time	

4 Equipment

The Tap Density Tester is delivered with the following parts:

- measuring tank 1x
- stamp 1x
- casing 1x
- silicone ring 1x
- power supply cable 1x

5 Accessories

The following accessories (see section 4) can be ordered by Funke Dr.N.- Gerber Labortechnik GmbH:

accessory	item number
measuring tank	7661
stamp	7700-003
casing	7700-006
silicone ring	7700-013
plastic motor extension	7700-005

contact:

Funke Dr.N.- Gerber Labortechnik GmbH
Ringstrasse 42
12105 Berlin Germany

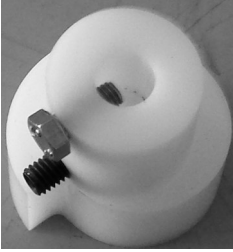
e-Mail: kontakt@funke-gerber.de

6 Service and Repair

Every accessory listed in 5 can be changed easily by the customer (ref. 6.1).

All other service or repair issues have to be handled by Funke Dr.N.- Gerber Labortechnik GmbH

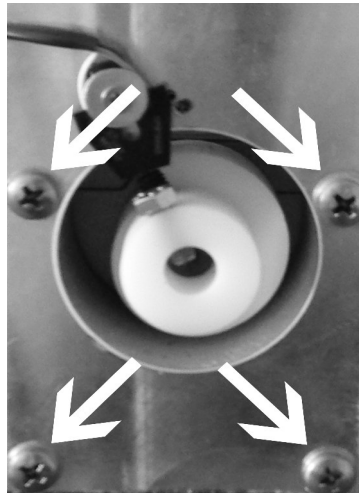
6.1 Service of the plastic part extension



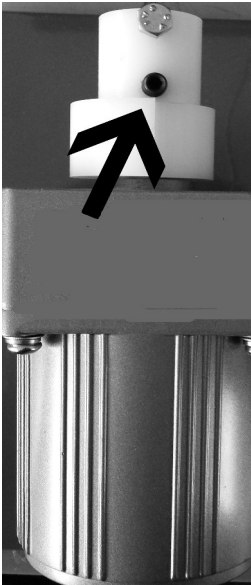
picture 12 plastic extension of the motor

After a year of intense use you should test the height of drop of the stamp with an appropriate measurement device. If the drop height is smaller than 2.9 mm the plastic extension of the motor has to be replaced as shown in pictures 13-15.

First the case of the device has to be opened. Therefore you have to unscrew the four small screws at the ground plate of the device. After that open the device and unscrew the screws marked by the white arrows in picture 14. Thereafter the motor should be movable.



picture 13: screws which hold the motor



picture 14: Motor

The Last step is to unscrew the screw marked by the black arrow in picture 15.

After that replace the plastic extension with the new one.

Now the screws can be fastened and the device can be closed.

7 Electrical Characteristics

Supply Voltage: 100V – 240V AC
(abs. max.: 85V – 265V AC)

Frequency: 40Hz - 440Hz

8 WEEE reference



Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)

This symbol on the product(s) and / or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling,

please take this product(s) to designated collection points where it will be accepted free of charge.

Alternatively, in some countries you may be able to return your products to your local retailer upon purchase of an equivalent new product.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with you national legislation.

For business users **in the European Union**

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries **outside the European Union**

This symbol is only valid in the European Union. If you wish to discard this product please contact your local authorities or dealer and ask for the correct method of disposal.

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