



Dry incubator

Operation manual

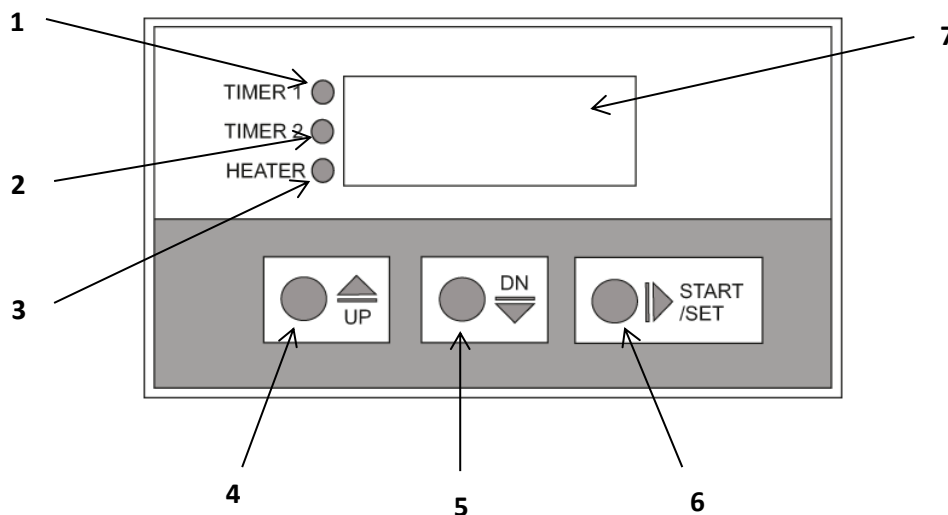


www.milkotester.com
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Milkotester dry incubator is very simple to use device for detection on antibiotics in raw milk. For safe and dependable operation, please follow the instructions in this manual when operating:

- Verify that the input voltage on the AC Adapter and the plug type matches the local AC power supply.
- The incubator placed on a firm surface.
- Disconnect the thermostatic device from the power supply when cleaning it.
- Service should be performed by authorized personnel only.

1. Overview functions



1. Green led - shows the status of the timer 1(also in programming mode)
2. Green led - shows the status of the timer 2(also in programming mode)
3. Red led - shows the status of the heater (on-off)
4. Button Up
5. Button Down / Stop
6. Button Start / Set
7. Three digits indication – show temperature/time

2. Factory settings

Two independent working modes (Mode 1 and Mode 2) are available in the incubator. Each of them can be set with desired temperature and time. The temperature setting is in range from 30°C to 80 °C thru 0.10 of degree. Time range is from 1 min to 600 min, thru one minute. The thermostatic device is factory set for temperature and time according to the different models.

ET – W24	Temperature	Timer 1	Timer 2
MODE 1	40°C	3min.	3min.
MODE 2	65°C	180min.	

DC – W14	Temperature	Timer 1	Timer 2
MODE 1	56°C	10min	
MODE 2	64°C	180min.	

CH – W12	Temperature	Timer 1	Timer 2
MODE 1	56°C	10min	10min
MODE 2	56°C	10min	10min

BS – W8	Temperature	Timer 1	Timer 2
MODE 1	47.7°C	2min.	3min.
MODE 2	47.7°C	3min.	2min.

Rosa – W2	Temperature	Timer 1	Timer 2
MODE 1	40°C	1min.	
MODE 2	56°C	3min.	8min.

3. Setting of working mode 1

Enter working mode 1

- 3.1 The thermostatic device must be turned off from the power supply
- 3.2 Press the button UP and turn on the power by keeping the button pressed.
- 3.3 After 3 sec you will hear sound signal and number 1 will appear on the display.



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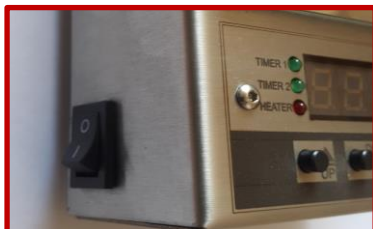


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4. Setting of working mode 2

Enter working mode 2

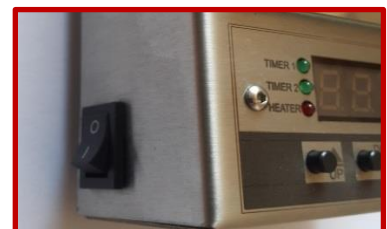
- 4.1 The thermostatic device must be turned off from the power supply
- 4.2 Press the button **DOWN** and turn on the power by keeping the button pressed.
- 4.3 After 3 sec you will hear sound signal and number 2 will appear on the display.



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After you set working mode 1 or 2 you must set the desired time and temperature.

5. Setting temperature and time

5.1 Turn off the device from the power supply.

5.2 Press the button **SET** and turn on the power by keeping the button pressed.

5.3 After 2 seconds on the display will appear **SET** accompanied with double sound signal and then release the button. The factory set temperature will appear on the display.

By pressing the buttons UP and DOWN you can adjust the desired temperature. Press again the button SET to save the settings and accompanied with double sound signal, time correction will be done automatically. At customer's request two working cycles can be set. The indicator of Timer 1 will illuminate and the factory set time for cycle 1 will appear on the display. By buttons UP and DOWN the time can be corrected. To save the changes press SET. Double sound signal will follow and Timer 2 indicator will illuminate for correction of the next cycle. Cycle 2 is set as cycle 1. If you do not need second cycle leave the timer in zeros.



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Attention: In entry of mode SET UP, temperature and time values are reset! When change the temperature to a lower value (for example: from 60 to 40 degrees) you must wait until heater plate gets cooler (switch off the device for 30 minutes)

6. Operation of the thermostatic device

When the device is switched ON, on the display appears the working mode:

Mode 1

Mode 2


After 2 sec the device beeps and on the display appears the current temperature. If indication blinks it means that the adjusted temperature is not reached. Timer 1 and Timer 2 starting is possible only when the temperature is adjusted (i.c. indication doesn't blink)

Timer is started by pressing START as the indicator displays the specified time and start Timer 1 (timer 1 indicator lights). Time decrease and reaching 000 the device gives an intermitted sound signal and on the display is flashing "1". After pressing the START button starts Timer 2, which indicates time. After time indication appears flashing symbol "2" and intermitted sound signal. The device waits for pressing the START button to complete the cycle and to go in mode temperature measurements.


If the button START is not pressed in order to start timer 2 or to finish the cycle the device for 5 min gives intermittent sound signal and symbol "1" or "2" is flashing on the display. After that the sound signal stops and the device waits for pressing the button START in order to start Timer 2 or to finish the cycle.


For the time of waiting device keeps the set temperature depending on the selected mode.


7. Models thermostatic devices

<p>Model</p> <p>ET – W24</p>	
<p>Application</p>	<p>Incubating antibiotic test for raw milk</p>
<p>Compatible test/ tube</p>	<p>Eclipse 50 , Eclipse 100 , Twinsensor</p>
<p>Time range</p>	<p>0 to 600 min.</p>
<p>Temperature range</p>	<p>30° C to 80°C</p>
<p>Working modes</p>	<p>Mode 1</p> <ul style="list-style-type: none"> ➤ Temperature : 40° C ➤ Timer 1: 3min. ➤ Timer 2: 3min.
	<p>Mode 2</p> <ul style="list-style-type: none"> ➤ Temperature : 65° C ➤ Timer 1: 180min.
<p>Number of wells</p>	<p>24</p>
<p>Electrical parameters</p>	<p>Switching adapter: Input 100-240 V~1.6A max , 50~60 Hz 12V ~24V</p>
<p>Dimensions (W x L x H)</p>	<p>160 x 90 x 50 mm</p>
<p>Weight</p>	<p>0.620 kg</p>
<p>Cover Box material</p>	<p>Stainless steel</p>

<p>Model</p> <p>Rosa – W2</p>	
<p>Application</p>	<p>Incubating antibiotic test for raw milk</p>
<p>Compatible test/ tube</p>	<p>Charm Rosa</p>
<p>Time range</p>	<p>0 to 600 min.</p>
<p>Temperature range</p>	<p>30° C to 80°C</p>
<p>Working modes</p>	<p>Mode 1</p> <ul style="list-style-type: none"> ➤ Temperature : 40° C ➤ Timer 1: 1min.
	<p>Mode 2</p> <ul style="list-style-type: none"> ➤ Temperature : 56° C ➤ Timer 1: 3min. ➤ Timer 2: 8min.
<p>Number of wells</p>	<p>2</p>
<p>Electrical parameters</p>	<p>Switching adapter: Input 100-240 V~1.6A max , 50~60 Hz 12V ~24V</p>
<p>Dimensions (W x L x H)</p>	<p>190 x 90 x 60 mm</p>
<p>Weight</p>	<p>0.880 kg</p>
<p>Cover Box material</p>	<p>Stainless steel</p>

<p>Model</p> <p>BS – W8</p>	
<p>Application</p>	<p>Incubating antibiotic test for raw milk</p>
<p>Compatible test/ tube</p>	<p>Beta Star , Beta Star combo</p>
<p>Time range</p>	<p>0 to 600 min.</p>
<p>Temperature range</p>	<p>30° C to 80°C</p>
<p>Working modes</p>	<p>Mode 1</p> <ul style="list-style-type: none"> ➤ Temperature : 47° C ➤ Timer 1: 2min. ➤ Timer 2: 3min.
	<p>Mode 2</p> <ul style="list-style-type: none"> ➤ Temperature : 47° C ➤ Timer 1: 3min. ➤ Timer 2: 2min.
<p>Number of wells</p>	<p>8</p>
<p>Electrical parameters</p>	<p>Switching adapter: Input 100-240 V~1.6A max , 50~60 Hz 12V ~24V</p>
<p>Dimensions (W x L x H)</p>	<p>160 x 90 x 80 mm</p>
<p>Weight</p>	<p>1.005 kg</p>

Cover Box material	Stainless steel
Model DC – W14	
Application	Incubating antibiotic test for raw milk
Compatible test/ tube	Delvotest , Copan
Time range	0 to 600 min.
Temperature range	30° C to 80°C
Working modes	Mode 1 <ul style="list-style-type: none"> ➤ Temperature : 56° C ➤ Timer 1: 10min.
	Mode 2 <ul style="list-style-type: none"> ➤ Temperature : 64° C ➤ Timer 1: 180min.
Number of wells	14
Electrical parameters	Switching adapter: Input 100-240 V~1.6A max , 50~60 Hz 12V ~24V
Dimensions (W x L x H)	160 x 90 x 80 mm
Weight	1.145 kg
Cover Box material	Stainless steel

<p>Model</p> <p>CH – W12</p>	
<p>Application</p>	<p>Incubating antibiotic test for raw milk</p>
<p>Compatible test/ tube</p>	<p>Charm</p>
<p>Time range</p>	<p>0 to 600 min.</p>
<p>Temperature range</p>	<p>30° C to 80°C</p>
<p>Working modes</p>	<p>Mode 1</p> <ul style="list-style-type: none"> ➤ Temperature : 56° C ➤ Timer 1: 10min. <p>Mode 2</p> <ul style="list-style-type: none"> ➤ Temperature : 56° C ➤ Timer 1: 10min.
<p>Number of wells</p>	<p>12</p>
<p>Electrical parameters</p>	<p>Switching adapter: Input 100-240 V~1.6A max , 50~60 Hz 12V ~24V</p>
<p>Dimensions (W x L x H)</p>	<p>160 x 105 x 80 mm</p>
<p>Weight</p>	<p>1.535 kg</p>
<p>Cover Box material</p>	<p>Stainless steel</p>

8. Cleaning:

ATTENTION!

In order not to damage any part of the thermostatic device, please follow the cleaning instructions below:

Clean the metal cover box of the thermostatic device with ethyl alcohol and soft cloth.

Clean the plastic parts and covers of the thermostatic device with dishwashing liquid, water and soft cloth.



LIMITED WARRANTY

MILKOTESTER products are warranted against defects in materials and workmanship from the date of delivery through the duration of the warranty period. During the warranty period Milkotester will repair, or, at its option, replace any components (S) that proves to be defective at no charge, provided that the product is returned, freight prepaid, to MILKOTESTER.

This warranty does not apply if the product has been damaged by accident or misuse, exposed to radioactive or corrosive materials, foreign material penetrating to the inside of the product, or as a result of service or modification by other than MILKOTESTER. In case of a properly returned warranty registration card, the warranty period shall begin on the date of shipment to the authorized dealer. No other express or implied warranty is given by Milkotester Ltd.

As warranty legislation differs from state to state and country to country, please contact Milkotester or your local MILKOTESTER dealer for further details.

MILKOTESTER service center will repair the product free of charge subject to terms & condition mentioned below.

TERMS & CONDITION

- 1 It covers only weighing balance purchased from authorized channel and does not covers accessories like Battery, Adaptor, RS232 cable.
2. It does not cover the product which service manual and serial number has been altered, removed or defaced and/or is open by unauthorized person and found void sticker has been tampered.
- 3 This warranty is non-transferable and applicable only to first end user purchasing the product from authorized dealer.
- 4 .For repair based on this warranty you need to hand over this product or send this product to address mentioned in warranty card in original packing, enclosing copy of this warranty card.
5. Milkotester Ltd. shall not be liable for any consequential damages.

WARRANTY REGISTRATION



Milkotester Ltd.
49, Hristo Botev St.,
4470 Belovo, BULGARIA,
web: www.milkotester.com

NAME:

ADDRESS:

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TEL.No: MENU No:

SERIAL NO: PURCHASE DATE:

<u>BRANCH /DISTRIBUTOR /DEALER CONTACT DETAILS</u>

WARRANTY PERIOD:

Owners Signature/ Date

SEND YOUR WARRANTY CARD DULY FILL TO ABOVE ADDRESS FOR REGISTRATION