



Product Name	GAOTek Cooking Oil Analyzer
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Based in New York City & Toronto, GAO Tek Inc. is ranked as one of the top 10 global B2B technology suppliers. GAO ships overnight within the U.S. & Canada & provides top-notch support thanks to its 4 decades of experience.



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Cooking Oil Analyzer

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1. Summary

1.1 Brief introduction

To ensure that you fully understand the use of the moisture meter, please read this manual carefully before using it.

1.2 Feature and use

Easy to operate, accurate measurement, have following feature

- 1) Gather Electronic balance technology, halogen radiation technology and temperature control technology in one
- 2) Small size, perfect function, easy to use
- 3) Rapid heating and uniform heating
- 4) Large LCD display, reading clearly
- 5) Built-in function keys
- 6) Built-in database can store data set by 8 samples
- 7) Display all test data during drying
- 8) Widely used in laboratories of medicine, food, tobacco, food, chemical and other industries.

1.3 Operating environment and safety attentions

- 1) Should place it at the stable and flat working platform. It is necessary to avoid any vibration, direct sunshine, airflow and strong electromagnetic wave interference
- 2) Working Environment: Temperature range: 15°C-30°C; Temperature fluctuation range shall be within 5°C/h. The relative humidity shall be between 50% ~ 75%.
- 3) Operating Voltage: 220V, 50Hz±1Hz, Power:350W
- 4) Make sure there is enough space around to prevent heat build-up and overheating (At least one meter space above the machine)
- 5) In the heating process, the upper cover part will be hot, please do not place things, do not touch directly by hand.
- 6) Do not cover the hole in the upper cover during heating to maintain good heat dissipation. Do not place flammable materials around. Be careful when removing the sample, because the samples and pan is still hot.

2. The main technical parameter

Max capacity	20g or 50g or 100g
Readability	1mg
Moisture measurement accuracy	±0.5% (sample≥2g)
Moisture content determination readability	0.02%~0.1% (sample≥2g)
Temperature control adjustment tolerance	±1°C
Heating temperature range	60~160°C



Heating time range	0~99 min
Analytical method	Manual, timed, automatic
Moisture range	0%~100%
Dimensions	350x215x192mm
Net weight	4.5kg

3. Installation and adjustment

3.1 Open the box and check

Open the packing box, please check whether there is any shipping damage, and if the product is consistent with the contents of the packing list.

3.2 Installation

Place the moisture analyzer at the stable and flat working platform, install the pan holder and pan in turn

3.3 Adjustment

Observe the position of the level bubble. If it is offset, adjust two horizontal feet

4. Operation

4.1 Attentions

- 1) Turn on the power for more than 30 minutes before use, to make it adapt to environmental fluctuations. If the instrument is placed in a cold environment before installation, it takes several hours to ensure stability, then heating for 30 minutes, Stop the heating and allow the moisture analyzer to cool to room temperature, finally measuring the moisture content of the sample at the required temperature.
- 2) Users should be careful to operate, and the test sample should be evenly tiled on the weighing pan
- 3) Standard sample should be 5~10g. Tare before weighing.
- 4) Please set the heating parameters first (Heating temperature, end method) before weighing samples.
- 5) To ensure the accuracy of the test, the sample is preferably in a powder state. Large particle samples should be crushed with a grinder first.

4.2 Switch of moisture analyzer

- 1) Touch LCD, start the machine and self-calibration internal, the display lights up, and the instrument enters the main page after the self-test ends.
- 2) Warm up for 30 minutes



4.3 Operation of moisture analyzer

- 1) **Weight calibration** the moisture analyzer should be calibrated under the premise of empty scale and tare and the internal signal is stable. In order to improve and ensure the accuracy of the weighing data, the weight calibration is performed before the first weighing, or the weighing is required. The weight calibration procedure is as follows:
 - a. Clean the sample pan and place it in place, close the upper cover and touch the calibration key on the main menu
 - b. Touch weight calibration key
 - c. Display will show the weight value
 - d. Place the corresponding weight on the pan, close the upper cover
 - e. Wait for about 5 seconds, display show the weight value, calibration finished, remove the weight (if not zero, please repeat above operation)
- 2) **Date and time settings**
 - a. Touch calibration key in the main menu interface (home page)
 - b. Touch the timer key to set the date and time, then touch the confirm key to finish
- 3) **Drying temperature settings**

Temperature can be settled at 60°C~160°C, step as follows:

 - a. Touch Auto heating or tim heating key in the main menu interface (home page)
 - b. Set the temperature in the display frame of the drying temperature
 - c. Touch the confirm key to finish
- 4) **End mode selection**

The instrument provides you with three different ending modes: manual, timing, and automatic.

Timing: When this end mode is selected, the measurement process is not completed until the preset heating time is reached (The display will give you the heating time and other relevant information)

Automatic: When this end mode is selected, the weight loss is less than 1mg during the instrument customize time, the instrument will consider drying completely and automatically terminate the measurement process (The display will provide heating time during the heating process)

Operation steps are as follow:

Timing:

- a. Touch time heating in the main menu interface (home page)
- b. Input the temperature and time you want, place samples, after stable, start heating

Automatic:

- c. Touch auto heating in the main menu interface (home page)
- d. Input the temperature you want, place samples, and after stable, start heating



4.4 View test data

For the test data that has been stored, the user can view, step as follow:

- a. Touch history record key in main menu interface (home page)
- b. Select the sample folder that has been tested and saved
- c. Click on the folder to enter and view the parameters for testing the moisture

5. Data interface

1) Serial interface parameter settings

Baud rate 9600

Parity Check Non

6. Maintenance

- 1) When using the moisture analyzer often, the moisture analyzer should be continuously energized to reduce the warm-up time, so that the moisture analyzer is in a relatively stable state. If the moisture analyzer is not used for a long time, the power should be turned off.
- 2) The moisture analyzer should be kept clean. Beware of dust and other items getting into the moisture analyzer. The weighing pan and shell are often wiped clean with a soft cleaning agent and a soft cloth. Do not scrub with a strong solvent such as alcohol or gasoline. The moisture analyzer should not be placed in a corrosive atmosphere.
- 3) According to the frequency of use of the moisture analyzer, it should be periodically checked and calibrated

7. Faults and Solutions

No.	Fault	Reason	solutions
1	The monitor is all off	<ol style="list-style-type: none"> 1. not properly powered on 2. display switch is not open 3. Transient interference 4. Fuse broken 	<ol style="list-style-type: none"> 1. Try to plug in the power again 2. open the switch and touch the screen again 3. Above 1 and 2 4. Change the fuse
2	Ultralight or zero ultralight	<ol style="list-style-type: none"> 1. Not place the pan holder on 2. The pan holder is not installed correctly 3. Internal memory calibration may be damaged 	<ol style="list-style-type: none"> 1. Re-install pan holder 2. Same as 1 3. Re-calibrate capacity of the moisture analyzer
3	Overweight or zero overweight	<ol style="list-style-type: none"> 1. Heavy objects on the weighing pan when power on 2. Over the maximum load 3. Internal memory calibration maybe damaged 	<ol style="list-style-type: none"> 1. Remove heavy objects on the weighing pan 2. Reduce the load 3. Re-calibrate capacity of moisture analyzer



4	Sample weight is overweight	Over the maximum load	Reduce the load
5	Ultralight or overweight when calibrating	<ol style="list-style-type: none"> 1. Incorrect calibration weight 2. There is object before calibration 	<ol style="list-style-type: none"> 1. Use correct weight 2. Remove object, zero and calibrate
6	The weighing result is unstable	<ol style="list-style-type: none"> 1. working environment airflow too big 2. Working platform is not stable 	<ol style="list-style-type: none"> 1. Try to avoid airflow 2. place it at the stable and flat working platform
7	Inaccurate weighing results	<ol style="list-style-type: none"> 1. Not zero before weighing 2. Use moisture balance before calibration 	<ol style="list-style-type: none"> 1. Touch zero key first 2. Calibrate the machine before using
8	Touching a function key does not respond	<ol style="list-style-type: none"> 1. maybe transient interference 2. The power supply voltage is incorrect 	<ol style="list-style-type: none"> 1. Reboot machine 2. Use collects voltage power supply

8. Packing list

Moisture analyzer	1pcs
Manual	1pcs
Power cable	1pcs
Weight	1pcs
SS Pan	2pcs
Pan taker	1pcs
Pan holder	1pcs
Warranty Card	1pcs