PORTABLE AIR OZONE GAS MEASURING DEVICE

POAC18 USER MANUAL

ENGINEERING SOLUTIONS IN OZONE SYSTEMS

ABOUT POAC18

About Portable Ozone Gas Meter

POAC18 model portable ozone gas measuring device detects ozone gas P.P.M. It provides measurement from (Parts Per Millions) unit, measurement of humidity and temperature in the environment, and collection of data received in a source.

POAC18 portable ozone gas measuring device is a portable sensor. It provides a reliable and economical control to inspect generators, valves, pipes, ozone gas application areas, points where ozone gas leakage may occur and to see ozone gas levels.

The device can be managed over an internet network, so that the data on the device can be continuously observed from the computer. The humidity, temperature and P.P.M. Different probes can be preferred according to the value.

NOTE: When the control panel is accessed by Teknozone, it can remotely control all the information of all customers included in the internet sensor portal and monitor all reports and statistics. (Valid for companies with portal membership.)

**** All customers, regardless of whether they are a portal member or not, can benefit from general OTA (Over the Air) software updates if they can access the wide network (if connected to the internet).*

Technical Properties

Brand	Teknozone
Model	POAC18
Measuring Range	10.00 PPM with 0.02 PPM
You ask	Heated Electro Chemical
Precision	0.01 PPM first response
Reaction time	Within 3 seconds when the gas reaches the sensor
Operating temperature	-10 ° C / 55 ° C
Working Humidity Range	15% RH / 90% RH
Operating voltage	WITH 5 VDC ADAPTER
Safe	ABS Plastic
Battery	Rechargeable Li-Po Battery
Battery Duration	4 hours with the screen always on
Dimensions (W * L * D)	177x77x25 mm
Weight	200 grams

DESCRIPTION OF DEVICE

Figure 1-Control Panel Front View and Screen

COLOR TOUCH SCREEN: *The color touch screen is 2.4'', and all the operations that can be done on the device are controlled from this screen.*

SENSOR GROUP: *It is the group within the sensor module that measures the heated electrochemical sensor (ozone gas measurement sensor) and the ambient humidity / temperature values.*

WORKING CONDITIONS AND WARNINGS

- ¢KŜ LJN2ōŜ ǿI·ă 2LJŜNI·ŭŜŘ ŦƧN ŭKŜ ŦΛNăŭ ny K2dzNă ƛy˝ăŭI·yŘI·NŘ N22Y Ŏ2yŘƛŭƛ2yã óƛy˝I·y˝ŜyǾΛN2yYŜyŭ ǿƛŭK2dzŭ 2Î2yŜ ∃I·ă I·yŘ 2ŭKŜN ∃I·ăŜăú I·yŘ I·ft ŎI·fƛōNI·ŭƛ2y˝LJN2ŎŜăăŜă ǿŜNŜ ŘŜfƛǾŜNŜŘ ōè ¢Ŝ˺y2Î2yŜ¢ ó9yŜN∃ƛÎƛy∃ ŭKŜ ăŜyã2N Y˝2ŘdzfŜ ƛă ădzŦŦƛŎƛŜyŭ¢ú
- ¢KŜ LJN2ōŜ ƛă I·ŦŦŜŎŭŜŘ ōè ădzŘŘŜy˝ǿŜI·ŭKŜN ŎKI·y∃Ŝă óŭŜY˝LJŜNI·ŭdzNŜ I·yŘ KdzY˝ƛŘƛŭèú I·yŘ I·ŘI·LJŭă ŭ2 ŭKŜ ŜyǾΛN2yYŜyŭ I·ŦŭŜN I· ǿKƛfŜ¢ ¢Kƛă ŎI·y˝ŘI· YI·∃Ŝ ŭKŜ LJN2ōŜ¢
- bƛŭN2∃Ŝy˝5ƛ2ÈƛŘŜΣ /Kf2NƛySΣ ŜŭŎ¢ ±2fI·ŭƛfŜΣ Ŏ2NN2ăƛǾŜ ∃I·ăŜăΣ 2N∃I·yƛŎ ă2fǾŜyŭă ŎI·y˝∃NŜI·ŭfè I·ŦŦŜŎŭ ŭKŜ YŜI·ădzNŜYŜyŭ ǾI·fdzŜă¢ ¢Kƛă YI·è I·ŦŦŜŎŭ YŜI·ădzNŜYŜyŭ NŜădzfŭăΣ ŎI·dzăŜ dzyãŭI·ōfŜ 2LJŜNI·ŭƛ2y˝2N LJŜNYI·ySyŭfè ŘI· YI·∃Ŝ ŭKŜ LJN2ōŜ¢
- ¢KŜ LJN2ōŜ Ř2Ŝă y2ŭ ǿ2N˺ I·ă ŜÈLJŜŎŭŜŘ ƛy˝I·y˝ŜyǾΛN2yYŜyŭ ǿƛŭK f2ǿ 2ÈèƎŜy˝∃I·ă Ŏ2yŎŜyŭNI·ŭƛ2y˝óōŜf2ǿ мфˆ: Ŏ2yŎŜyŭNI·ŭƛ2yNI·ŭƛ2ú¢ Lŭ ŘI· YI·∃Ŝă ŭKŜ LJN2ōŜ¢
- ¢KŜ LJN2ōŜ ăK2dzfŘ y2ŭ ōŜ ădzō?ŜŎŭŜŘ ŭ2 ădzŘŘŜy˝ăK2Ŏ˺ă I·yŘ Ŏ2yŭƛyŭz2dză ǾƛōNI·ŭƛ2y¢ Lŭ ŘI· YI·∃Ŝă ŭKŜ LJN2ōŜ¢
- ¢KŜ LJN2ōŜ ăK2dzfŘ ySǾŜN Ŏ2YŜ ƛyŭ2 Ŏ2yŭI·Ŏŭ ǿƛŭK ǿI·ŭŜN I·yŘ κ 2N 2ŭKŜN fƛIjdzƛŘă¢ Lŭ ŘI· YI·∃Ŝă ŭKŜ LJN2ōŜ¢
- /2yŭI·Ŏŭ ǿƛŭK Kƛ∃K Ŏ2yŎŜyŭNI·ŭƛ2y˝2N∃I·yƛŎ ∃I·ăŜă ăK2dzfŘ ōŜ I·Ǿ2ƛŘŜŘ¢ Lŭ ŘI· YI·∃Ŝă ŭKŜ LJN2ōŜ¢
- Lŭ ăK2dzfŘ y2ŭ ōŜ ădzō?ŜŎŭŜŘ ŭ2 2Î2yŜ ∃I·ă ƛy˝Ŏ2yŭƛyŭz2dză Kƛ∃K Ŏ2yŎŜyŭNI·ŭƛ2y˝óY2NŜ ŭKI·y˝м K2dzN ŜÈLJ2ădzNŜă I·ō2ǾŜ p LJLJYú¢ Lŭ ŘI· YI·∃Ŝă ŭKŜ LJN2ōŜ¢
- ¢KŜ LJN2ōŜ ăK2dzfŘ ōŜ LJN2ŭŜŎŭŜŘ ŦN2Y ŘΛNŜŎŭ Ŏ2yŭI·Ŏŭ ǿƛŭK ŭKŜ 2dzŭfŜŭ 2Ŧ ŭKŜ 2Î2yŜ ∃I·ă ă2dzNǾŎŜ¢ Lŭ ŘI· YI·∃Ŝă ŭKŜ LJN2ōŜ¢
- ¢KŜ LJN2ōŜ ăK2dzfŘ y2ŭ ōŜ ŜÈLJ2ăŜŘ ŭ2 Kƛ∃K Ŏ2yǾŜŎŭƛ2yI·f I·ΛN ŎdzNNŜyŭă¢ Lŭ ŘI· YI·∃Ŝă ŭKŜ LJN2ōŜ¢
- ¢KŜ LJN2ōŜ ăK2dzfŘ ySǾŜN ōŜ ŭ2dzŎKŜŘ ǿƛŭK KI·yŘă 2N ăKI·NLJ 2ō?ŜŎŭă¢ Lŭ ŘI· YI·∃Ŝă ŭKŜ LJN2ōŜ¢
- ¢KŜ LJN2ōŜ ŎI·y˝ǿ2N˺ ōŜŭǿŜŜy˝тмл I·yŘ рл ŘŜ∃NŜŜă /Ŝfăƛdză¢
- ¢KŜ LJN2ōŜ ŎI·y˝2LJŜNI·ŭŜ ƛy˝I· KdzY˝ƛŘƛŭèú NI·y∃Ŝ 2Ŧ мфˆ: ŭ2 фƶîˆ: óy2yfŎ2yŘŜyãƛy∃ú¢
- 5ŜǾƛŎŜ 2LJŜNI·ŭƛy∃ Ǿ2fŭI·∃Ŝ ƛă p± 5/.
- *Temperature and humidity probe measures temperature with 2 ° C error margin between 0 and 50 ° C and humidity with 5% RH error between 20 -90 RH.*
- *Hand-held ozone gas measuring device has a micro USB port. It should only be charged with 5V. Otherwise, the battery and charging circuit will be damaged.*
- *The device does not need to be turned on to charge the battery. It should be charged in the off position.*
- *A fully charged device can work for about 4 hours. Leave the device running continuously should be avoided.*
- *The device should never be used while charging. Simultaneous use in the form of charging and discharging causes overheating, overloading the battery, and permanent damage to the battery and charging circuit.*

IMPORTANT!

- *The service life of the probe and the battery is 2 years, provided that the above operating conditions and warnings are observed.*
- *If the above operating conditions and warnings are not followed, the service life of the probe is shortened, zero value drift occurs, permanent damage occurs or becomes inoperable.*
- *If the above mentioned working conditions and warnings are not followed, the service life of the battery becomes shorter and the charge starts to stop. There are drops in ampere power. Working time is shortened.*
- *The probe is not guaranteed as its service time varies according to the usage conditions.*
- *The battery is not guaranteed as the service time varies according to the usage conditions.*
- *The device contains a Li-Po battery. When Li-Po batteries are not used under appropriate conditions, they may result in burning and / or explosion. Water penetration, puncture, cutting, bending, compression, exposure to excessive heat may cause burns and / or explosions.*
- *If the battery is swollen, the service should be contacted immediately and the battery should be replaced. Continuing to use the deformed battery is dangerous.*
- *The device should be protected from direct sunlight and extremely hot environments.*
- *The device should not be bent, twisted or compressed.*

OPERATING THE DEVICE

- *Turn the device on by sliding the On-Off button,*
- *Wait 30 seconds after the device screen turns on,*
- *Click on the wireless sign on the screen. Since the device is in AP mode automatically, it waits for you to connect like a modem. (It continues sending data in the background)*

- Go to the wireless network connection option on your phone as shown in the adjacent figure.

- Since the device acts as a modem in AP mode, it will be displayed in the list.

- Find the name of your device in the list and click it.

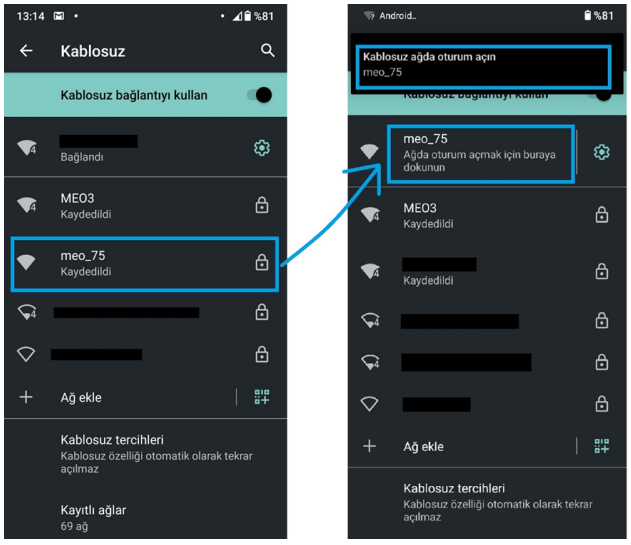
- After pressing the login button on the WIFI screen, page number 1 is displayed, enter the password given to you by Teknozone and press the login button.

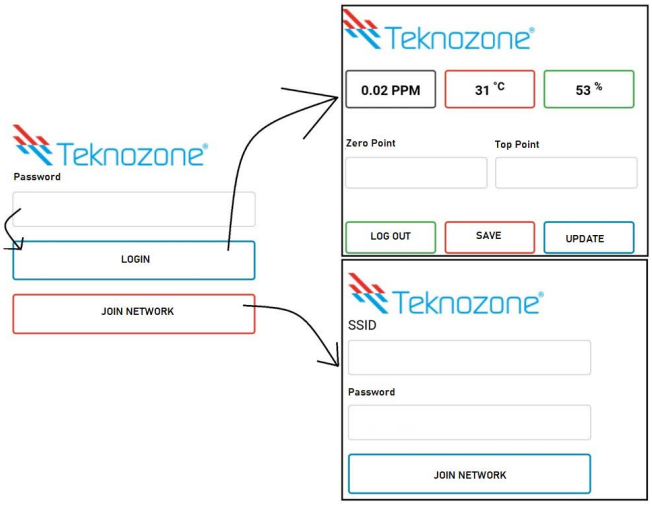
- The device will start in AP mode.

- To access the web server, it will be sufficient to write the device name written on the screen of the device to a browser on a device connected to the same network. Then enter the password given to you by Teknozone. Press the login button.

- To view all devices from a single screen, click the Join Network button, enter the modem SSID and password, and run the device as a web server.

- Enter the password given to you by Teknozone in order to view the Meo3 module and track your device online. Press the login button.





If you have a portal membership, you can access it remotely from www.teknozonesensor.com and monitor the report values and statistics of the recorded data on the MeO3 panel.

ACCESS

A- Direct Access

If the ozone gas meter is not connected to a network, it can be accessed directly in AP (Access Point) mode. It is connected by searching for wireless networks from the phone or computer and finding the device serial number. (Provided that the wireless operation modes of the phones and / or computers you will connect are compatible) Each device has a serial number. AP connection and management panel password is "12345678".

B- Remote Access

The data of customers who are members of the portal are stored for 1 month. (If going out to wide network) (Must be specified in portal membership contracts)

Portal member customer can report each sensor module data independently in the desired date range (Last 1 month) with hourly averages to Excel environment (CSV format).

Whether it is a portal member or not, handheld devices work as a web provider when connected to the local network. Local network addresses of the devices are in the form of http://cihazserino./. (Provided that the router used in the local network is suitable / allowed)

IMPORTANT: Data exceeding 1 month will be automatically deleted.

NOTE

1. *In order for customers who do not have a portal membership to enter their set values remotely, a query opportunity to check our server once an hour will be provided. (Teknozone reserves the right to change the query times)*
2. *Our sensor modules, which we will install for our customers in order to ensure customer information security, do not open ports to the wide network from the local network, our servers cannot directly access and send data to sensor modules. On the contrary, sensor modules send queries to our servers at specified intervals and request and save changes in set values.*
3. *Sensor modules of customers with portal membership check our servers once every 60 seconds, unless there is a different special application, leave data and take the set values, if any. (Query times may vary depending on the sensor module. Teknozone reserves the right to change the query times.)*
4. *Our servers are located in Google data centers. A backup is taken every 24 hours.(Teknozone reserves the right to change the data center.)*
5. *Teknozone reserves the right to change all information flow and conditions with the purpose and / or condition of ensuring information security, on condition of prior notice.*
6. *The product bears the CE check mark; Teknozone declares compliance with applicable EU safety regulations and EMV regulations.*