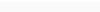


ems kontrol AS-412 Portable Gas Sensor User Manual

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ems kontrol AS-412 Portable Gas Sensor



Product Usage Instructions

- The portable gas sensor precisely measures gas values in the environment and displays it on the screen. It comes with a built-in battery for portability.
- The sensor works and charges with a 12 V DC adapter. It can be turned on and off with the switch on it.
- Common applications include HVAC systems, poultry automation, cold storage, incubation rooms, food storage, air conditioning cabinets, clean rooms, and laboratories.
- Unpack the product and turn it on using the on-off button.
- No installation is needed as the device is portable. Move it around to measure values in different environments.
- If fixed placement is required, connect to a power supply using the adapter.
- Wait for 30 seconds after switching on for the device to start measuring. Leave it in the environment for at least 5 minutes for accurate readings.
- You can charge the device when it is on or off.
- Full charge capacity is reached in 2.5 hours when the device is turned off.
- Battery usage time is 5 hours.
- The product is sold calibrated; avoid calibrating unless necessary.
- · Calibrate only if incorrect measurements are confirmed.

- · Contact the manufacturer for calibration services.
- Sensor life is 2 years, after which replacement is required. Replacement can be easily done in the field of use.

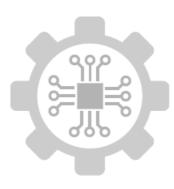
PORTABLE GAS SENSOR

• AS/CS/ES/OS-412

USER MANUAL



www.emskontrol.com



WHAT IS IT?

- The portable gas sensor precisely measures gas value in the environment and transfers it to the display on the screen.
- The built-in battery allows you to carry it and use it in different areas.

HOW DOES IT WORK?

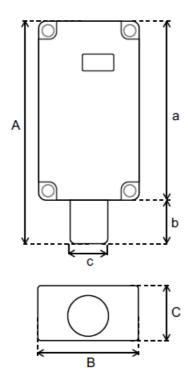
- It works and charges with a 12 V DC adapter.
- It allows you to turn the product on and off with the switch on it.

GENERAL FEATURES

- Accurate and Precise Measuring, Internal Battery,
- Durable and Handy Design, 2 Years Sensor
- Operating Life, Easy Replaceable Sensor,
- IP 67 Plastic Case (Excluding Sensor)

AREAS OF USE

• HVAC Applications, Poultry Automation and Poultry Farms, Cold Storage, Incubation Rooms, Food Storage, Air Conditioning Cabinets, Clean Rooms and Laboratories.



| Sizes | | |
|-------|--------|--|
| Α | 139 mm | |
| В | 65 mm | |
| С | 40 mm | |
| а | 115 mm | |
| b | 24 mm | |
| С | 24 mm | |

Technical Data

| Product Name: | Portable Gas Sensor |
|------------------------|--------------------------|
| Supply Voltage: | 12-24 V DC |
| Output: | _ |
| M. Range (NH3): | 0-100 ppm |
| Prec s on (NH3): | ± 1 ppm |
| Accuracy (NH3): | ± 2 ppm |
| M. Range (CO): | 0-1.000 ppm |
| Prec s on (CO): | ± 1 ppm |
| Accuracy (CO): | ± 5 ppm |
| M. Range (C2H4): | 0-10 ppm / 0-100 ppm |
| Prec s on (C2H4): | ± 0,1 ppm |
| Accuracy (C2H4): | ± 0,3 ppm |
| M. Range (O2): | 0-25 % VOL |
| Prec s on (O2): | ± 0,1 % VOL |
| Accuracy (O2): | ± 1 % VOL |
| Operat ng Temperature: | (-10°C) – (+55°C) |
| Storage Temperature: | (-20°C) – (+60°C) |
| Protect on Class: | IP 67 (Excluding Sensor) |

RULES TO BE CONSIDERED FOR SAFETY

- 1. Always read the user manual before using the device and its apparatus.
- 2. Damages caused by opening, breaking or misuse of the plastic parts of the device and its apparatus are considered out of warranty.
- 3. Keep the device and its apparatus away from external influences such as liquid, high dust, high temperature, etc. and protect them.
- 4. Do not expose the device cables to any jamming and pressure.
- 5. Our devices and apparatus should be used by paying attention to the points in the user manual. In case of damages and malfunctions arising from external use (liquid contact, falling to the ground, etc.) ask for helo from the service.

INSTALLATION

- 1. Our portable sensors are delivered to the user as charged. As soon as you unpack the product, you can turn it on and use it using the on-off button.
- 2. Since the device is portable, you do not need to make any installation. You can measure the values in different environments by moving your charged product around in your hand.
- 3. If the device is to be used on the wall or in a fixed place, it is possible to connect it to the power supply with the adapter and use it wired.
- 4. The device starts measuring 30 seconds after switching on. It is recommended to leave the product in the environment for at least 5 minutes to get healthy measurement values.

ADAPTER / CHARGER / BATTERY

- 1. You can charge your device either off or on.
- 2. Reaches full charge capacity in 2.5 hours when your device is turned off.
- 3. The portable gas sensor battery usage time is 5 hours.

ADAPTER / CHARGER / BATTERY

- 1. You can charge your device either off or on.
- 2. devices is under capacity in 2.5 hours when
- 3. The portable gas sensor battery usage time is 5 hours.

BEFORE CALIBRATION

- 1. The product is sold as calibrated. Please do not calibrate unless necessary.
- 2. Perform calibration only when it is certain that the product is measuring incorrectly.
- 3. Calibration is only performed at the production facilities. With the manufacturer for calibration please contact us.

SENSOR LIFE - IMPORTANT CRITERIA

- 1. Sensor life is 2 years. After 2 years, sensor replacement is required. Sensor replacement can be done easily in the field of use.
- 2. Do not expose the sensor to high amounts of natural gases. It may cause the sensor to malfunction.
- 3. The sensor energy connection should not be repeatedly switched on and off.

USER MANUAL

DECLARATION OF CONFORMITY

Headquarters and place of production, Halkapinar

Mah. 1376 Sok. Boran Plaza No:1/L Konak / IZMIR

TURKIYE, EMS KONTROL ELEKTRONIK VE MAKINE SAN. TIC. A.S. declares that the product marked with CE, whose name and specifications are given below, covers the specified directives and provisions.

- Brand: EMS KONTROL
- Product Name: AS/CS/ES/OS- 412 Product Type: Portable Gas Sensor Compatible Directives:
- Elektromagnetic Compatibility Directive 2014/30/EU (EMC EN 61000-6-3: 2007 + A1: 2011,

• EN 61000-6-1: 2007) Low Voltage Directive 2014/35/EU (LVD EN 60730-2-9:2010, EN 60730-1:2011)

Additional information: This product can be used in combination with other devices and compliance with the directives covers only the product. EMS KONTROL is not responsible for the compliance of entire system with the directives.

This declaration is not valid if the product is modified without our approval.



EMS KONTROL ELEKTRONIK
VE MAKINE SAN. T.C. A.Ş.
Halkapınar Mahallesi 1378 Sk.Boran Plaza
N. 11 Konak H.Z M. T.R
EGE V D. 334 1044628
Mersis No. 0334 10446280001

WARRANTY TERMS

- 1. The warranty period of the devices and apparatus starts from the invoice date and is guaranteed for 2 years against manufacturing defects.
- 2. Devices and apparatus are delivered to the customer in working condition in our company. On-site commissioning is subject to a service fee.
- 3. The repair of the devices and apparatus under warranty is carried out in our company as a result of sending them with the transportation company contracted by our company. In on-site services, transportation and accommodation expenses of the service personnel belong to the customer. The cost of the working time spent on the road is added to the service fee and the collection is made in advance.
- 4. Maintenance of devices and apparatus is done in our company. Transportation and transportation fees of the devices and apparatus to and from our company for maintenance belong to the customer.
- 5. In case of malfunction of the devices and apparatus whose warranty period continues, whether the malfunction is caused by the fault of the customer or the manufacturer is tested in our company and reported with the report to be issued by our company.
- 6. In case of detection of manufacturer-induced faults of the devices and apparatus whose warranty period continues, the customer may request a replacement or may request that the repair costs of the devices and apparatus be fully covered by the manufacturer, provided that it does not exceed the product price.
- 7. In the event that the faults of the devices and apparatus whose warranty period continues are determined to be caused by the customer, all costs belong to the customer.
- 8. If the customer does not indicate that he/she is aware of the defects in the devices and apparatus from the date the warranty period starts or in cases where he/she is expected to be aware, he/she cannot benefit from Article 6.
- 9. Failures arising from the use of devices and apparatus contrary to the points in the user manual are not covered by the warranty.
- 10. Devices and apparatus are not covered by the warranty if they are beaten, broken or scratched by the customer.
- 11. Damages caused by the use of devices and apparatus of other brands and models without the approval of the manufacturer are not covered by the warranty.

- 12. Errors caused by rusting, oxidation and liquid contact due to working in dusty/acidic/humid environments are not covered by the warranty.
- 13. Damages that may occur during the transportation of devices and apparatus are not covered by the warranty. If the customer wishes, he/she can have transportation insurance.
- 14. Damages caused by mains voltage / faulty electrical installation are not covered by the warranty.
- 15. Devices and apparatus are not covered by the warranty in case of malfunctions caused by force majeure such as fire, flood, earthquake, etc.
- 16. All parts of the devices and apparatus, including all parts, are covered by our company's warranty.
- 17. If the devices and apparatus malfunction within the warranty period, the time spent in repair shall be added to the warranty period. The repair period of the goods shall not exceed 20 working days. This period starts from the date of notification of the malfunction of the goods to the service station, in the absence of a service station, to the seller, dealer, agent, representative, importer or manufacturer-manufacturer of the goods. The consumer can notify the malfunction by telephone, fax, e-mail, registered letter with return receipt or similar means. However, in case of dispute, the burden of proof belongs to the consumer. If the malfunction of the goods is not resolved within 20 business days, the manufacturer-manufacturer or importer; until the repair of the goods is completed, other goods with similar characteristics must be allocated to the use of the consumer.
- 18. Despite the consumer's right to repair the goods;
 - Provided that it is within the warranty period from the date of delivery to the consumer, it fails at least four
 times within a year or six times within the warranty period determined by the manufacturer-manufacturer
 and/or importer, as well as the fact that these failures make the inability to benefit from the goods
 continuous,
 - Exceeding the maximum time required for repair,
 - If it is determined that it is not possible to repair the malfunction with the report is to be issued by the
 service station of the company's service station, if the service station is not available, respectively by one
 of its dealers, dealer, agency, representative, importer or manufacturer- manufacturer, it may request a
 refund or a price reduction at the rate of the defect.
- 19. Customers may file complaints and objections to consumer courts or consumer arbitration committees.
- 20. The warranty certificate must be kept by the customer during the warranty period. In case of loss of the document, a second document will not be issued. In case of loss, repair and replacement of devices and apparatus will be made for a fee.





This device is a Waste of Electrical and Electronic Devices according to the directives applied in Europe 2002/96/EC. (WEEE) Before scrapping or throwing away this device, you must prevent its potential negative consequences for the environment and human health. Otherwis,e it would be inappropriate waste. This symbol on the product is intended to warn that the product should not be treated as household waste and should be delivered to electrical and electronic waste collection points. Disposal of the product must be done under local environmental regulations. You can obtain detailed information from authorized units on how to destroy, reuse and recycle the product..

Manufacturer's

- Title: EMS KONTROL ELEKTRONIK VEI
- MAKINE SAN. VE TIC. A.S.
- Address: Halkapinar Mah. 1376 Sokak Boran
- Plaza No:1/L Konak / Izmir-TURKIYE

Telephone: 0 (232) 431 2121E-Mail: info@emskontrol.com

· Comnany Stamn:

EMS KONTROL ELEKTRONIK
VE MAKINE SAN. TIC. A.Ş.
Halkapınar Mahállesi 1378 Sk.Boran Plaza
No. 11 Konak II z M.T.R
EGE V D. 334 364 4528
Mersis No. 0334 104462800001

Product's

• Type: Portable Gas Sensor

· Brand: EMS Kontrol

Model: AS/CS/ES/OS- 412Warranty Duration: 2 Years

Maximum Repair Time: 20 DaysBanderol and Serial Number:

Vendor Company

| Title: | | |
|-------------------------------------|------|-------|
| Address: | | |
| Telephone: Faks: Faks: | | |
| E-Mail: | | |
| Invoice Date and Number: | | |
| Delivery Date and Place: | | |
| Signature of Authorised Person: | | |
| Company Stamp: | | |
| · · · · · · · · · · · · · · · · · · | | - |

STAMP

Product's

Type: Portable Gas Sensor Brand: EMS KONTROL Model: AS/CS/ES/OS- 412

EMS Kontrol reserves the right to make changes and improvements to the product specifications and user manual.

For all changes, please visit emskontrol.com. www.emskontrol.com

FAQ

- · Q: How long does it take to charge the device?
 - A: The device reaches full charge capacity in 2.5 hours when turned off.

- Q: Can I use the device while charging?
 - A: Yes, you can charge the device while it is on or off.
- Q: Is calibration necessary for this product?
 - A: The product comes pre-calibrated; calibration should only be performed if incorrect measurements are observed.

Documents / Resources



ems kontrol AS-412 Portable Gas Sensor [pdf] User Manual

AS-412, CS-412, ES-412, OS-412, AS-412 Portable Gas Sensor, AS-412, Portable Gas Sensor , Gas Sensor

References

User Manual

Manuals+, Privacy Policy

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