



# Ems Kontrol KS-415 Portable Carbon Dioxide Sensor User Manual

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## Ems Kontrol KS-415 Portable Carbon Dioxide Sensor



### Specifications

Technical Data	
Product Name:	Portable Carbon Dioxide Sensor
Supply Voltage:	12-24 V DC
Output:	—
Measurement Range:	0-5.000 ppm / 0-10.000 ppm
Precision:	± 10 ppm
Accuracy:	± 50 ppm + %2
Operating Temperature:	(-10°C) – (+55°C)
Operating Hum. Range:	20 – 80 %
Storage Temperature:	(-20°C) – (+60°C)
Protection Class:	IP 67 (Excluding Sensor)


### Product Information

The portable carbon dioxide sensor allows you to make measurements in different environments. It precisely measures the carbon dioxide value in the environment, instantly transmits the measured values to the digital screen. The built-in battery allows you to carry it and use it in different areas.

### What is it?

The portable carbon dioxide sensor allows you to make measurements in different environments. It precisely measures the carbon dioxide value in the environment, it instantly transmits the measured values to the digital screen. The built-in battery allows you to carry it and use it in different areas.

### How Does It Work?

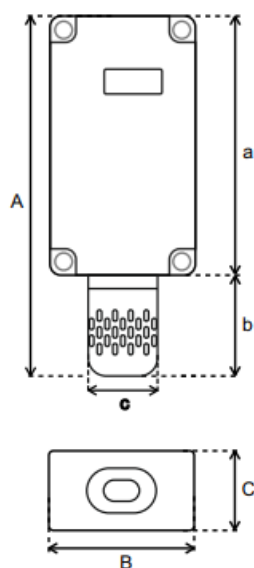
It works and charges with  a 12 V DC adapter. It allows you to turn the product on and off with the switch on it.

### General Features

- Accurate and Precise Measuring
- Internal Battery
- Durable and Handy Design
- Long Operating Life
- Cleanable Filter
- IP67 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	
<b>A</b>	160 mm
<b>B</b>	65 mm
<b>C</b>	40 mm
<b>a</b>	115 mm
<b>b</b>	45 mm
<b>c</b>	31 mm

### Rules to be Considered for Safety

### Installation

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 help from the service.

### **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. Portable carbon dioxide sensor battery usage time is 6 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 for carbon dioxide.
4. If the device measures values outside the range of 350 ppm – 450 ppm in clean and open air, calibration can be performed.

### **CALIBRATION**

1. A clean and open area away from any carbon dioxide source should be selected for carbon dioxide calibration.
2. The amount of carbon dioxide in the clean and the open area varies between 350 ppm – 450 ppm. When calibration is done, the product takes the value at the time of calibration as 400 ppm.
3. When the up and down buttons on the product are pressed for 3 seconds together, the 15 minute countdown starts, after the countdown is over, the calibration process is completed.
4. If the calibration process was started by mistake, press and hold the up and down buttons on the device together for 3 seconds. In this way, you can cancel the calibration process that you have started by mistake.

### **DECLARATION OF CONFORMITY**

Headquarters and place of production, Halkapinar Mah. 1376 Sok. Boran Plaza No:1/L Konak / IZMİR – TURKIYE, EMS KONTROL ELEKTRONIK VE MAKINE SAN. TIC. A.Ş. 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:** KR-416
- **Product Type:** Humidity & Carbon Dioxide Control Device
- **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 the entire system with the directives.

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

**EMS KONTROL ELEKTRONİK  
VE MAKİNE SAN. TİC. A.Ş.**  
Halkapınar Mahallesi 1378 Sk.Boran Plaza  
No:11/ KÖNÜK 11Z MTR  
EGE V.D. 334 104 4628  
Mersis No 033410446280001

## 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 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 a report is 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. If 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 acidic/humid environments are not covered by the warranty.
13. Damages that may occur during 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.
18. 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, 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, another good with similar characteristics must be allocated to the use of the consumer.
19. 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 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 dealer, dealer, agency, representative, importer or manufacturer- manufacturer, it may request a refund or a price reduction at the rate of defect.
20. Customer may file complaints and objections to consumer courts or consumer arbitration committees.
21. 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 Electrical and Electronic Equipment 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. Otherwise 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 by 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 VE MAKINE SAN. VE TIC. A.Ş.
- **Address:** Halkapinar Mah. 1376 Sokak Boran Plaza No:1/L Konak / Izmir-TÜRKİYE
- **Telephone:** (232) 431 2121
- **E-Mail:** [info@emskontrol.com](mailto:info@emskontrol.com)
- **Company Stamp:**

# EMS KONTROL ELEKTRONİK VE MAKİNE SAN. TİC. A.Ş.

Halkapınar Mahallesi 1370 Sk.Boran Plaza

No:11/ Konak /İZ MİR

EGE V D. 334 104 4628

Mersis No 033410446280001

- **Type:** Humidity & Carbon Dioxide Control Device
- **Brand:** EMS Kontrol
- **Model:** KR-415
- **Warranty Duration:** 2 Years
- **Maximum Repair Time:** 20 Days
- **Banderol and Serial Number:**



## Vendor Company

Title: .....

Address: .....

Telephone:..... Faks:.....

E-Mail:.....

Invoice Date and Number:.....

Delivery Date and Place:.....

Signature of Authorised Person:.....

Company Stamp:.....

STAMP

## Product's

Type:Humidity & Carbon Dioxide Control Device

Brand: EMS KONTROL

Model: KR-416

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

For all changes, please visit [emskontrol.com](http://emskontrol.com).

## FAQs

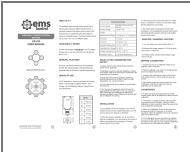
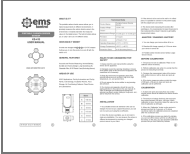
### Q: How long does it take to calibrate the sensor?

The calibration process typically takes around 10 minutes once initiated by pressing and holding the Calibration button on the device.

### Q: Can I charge the device while it is turned on?

Yes, you can charge the device both when it is turned off and when it is turned on.

Documents / Resources

	<a href="#">Ems Kontrol KS-415 Portable Carbon Dioxide Sensor</a> [pdf] User Manual KS-415, KS-415 Portable Carbon Dioxide Sensor, KS-415, Portable Carbon Dioxide Sensor, Carbon Dioxide Sensor, Dioxide Sensor, Sensor
	<a href="#">ems kontrol KS-415 Portable Carbon Dioxide Sensor</a> [pdf] User Manual KS-415, kk-04.26 rev-2.8, KS-415 Portable Carbon Dioxide Sensor, KS-415, Portable Carbon Dioxide Sensor, Carbon Dioxide Sensor, Dioxide Sensor

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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