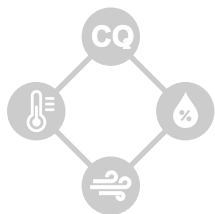




PORTABLE TEMPERATURE AND HUMIDITY SENSOR

SS-412 USER MANUAL



www.emskontrol.com



WHAT IS IT?

The portable temperature and humidity sensor accurately measures temperature and relative humidity of the environment in which it is located and displays the measured value on its integrated display. Equipped with a built-in rechargeable battery, the device can be easily transported and operated in various applications and locations.

HOW DOES IT WORK?

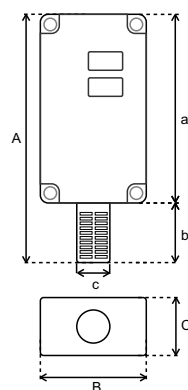
It works and charges with $\ominus$ C $\oplus$ a 12 V DC adapter. It allows you to turn the product on and off with the switch on it.

GENERAL FEATURES

Accurate and Precise Measuring, Internal Battery, Durable and Handy Design, Long Operating Life, Cleanable Filter, IP 67 Enclosure (Sensor Excluded)

AREAS OF USE

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



Sizes	
A	150 mm
B	65 mm
C	40 mm
a	115 mm
b	36 mm
c	20 mm

Technical Data

Product Name:	Portable Temperature and Humidity Sensor
Supply Voltage:	12-24 V DC
Output:	-
Measurement Range (Temperature):	-20...+60 °C
Precision (Temperature):	± 0,1 °C
Accuracy (Temperature):	± 0,3 °C
Measurement Range (Humidity):	0 - 100 % RH
Precision (Humidity):	± 1 % RH
Accuracy (Humidity):	± 3 % RH
Operating Temperature:	-10°C...+55°C
Storage Temperature:	-20°C...+60°C
Protection Class:	IP 67 (Excluding Sensor)

* If the device is to be used outside the operating temperature, the manufacturer must be informed and approval must be obtained.

SAFETY PRECAUTIONS

- 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 crushing, pinching, or excessive 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, dropping the device, etc.) ask for help 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- Portable temperature and humidity sensor battery usage time is 24 hours.

CALIBRATION

- 1- Temperature and humidity measurement calibration cannot be done on the product. Calibration is done at the production site.

USER MANUAL

DECLARATION OF CONFORMITY

Headquarters and place of production, Mersinli Mah. 1201/2 Sk. Temsil Plaza No:2/F Konak / İZMİR - TÜRKİYE, EMS KONTROL ELEKTRONİK VE MAKİNE SAN. TİC. 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: SS-412
Product Type: Temperature and Humidity Sensor

Compatible Directives:

Electromagnetic 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 these directives.

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



**EMS KONTROL ELEKTRONİK
VE MAKİNE SAN. TİC. A.Ş.**
Mersinli Mahallesi, 1201/2 Sk. Temsil Plaza
No:2/F Konak / İZMİR
EGE V.D. 334 704 4628
Mersis No: 0334104452800001

WARRANTY TERMS

1- The warranty period of the device and accessories starts from the invoice date and is guaranteed for 2 years against manufacturing defects.

2- Device and accessories are delivered to the customer in working condition in our company. On-site commissioning is subject to service fee.

3- The repair of the device and accessories 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 shall be borne by 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 device and accessories is done in our company. Shipping and transportation costs of the device and accessories to and from our company for maintenance shall be borne by the customer

5- In case of malfunction of the device and accessories 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 device and accessories whose warranty period continues, the customer may request a replacement or may request that the repair costs of the device and accessories be fully covered by the manufacturer, provided that it does not exceed the product price.

7- In the event that the faults of the device and accessories whose warranty period continues are determined to be caused by the customer, all costs shall be borne by the customer.

8- If the customer does not indicate that he/she is aware of the defects in the device and accessories 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 device and accessories contrary to the points in the user manual are not covered by the warranty.

10- Device and accessories are not covered by the warranty if they are dropped, broken or scratched by the customer.

11- Damages caused by the use of device and accessories 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 transportation of device and accessories 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- Device and accessories 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 device and accessories, including all parts, are covered by our company's warranty.

17- If the device and accessories 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. It is possible for the consumer to 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 product 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 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.

19- Customer 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 device and accessories will be made for a fee.



This device is a Waste Electrical and Electronic Device 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 in accordance with 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 ELEKTRONİK VE MAKİNE SAN. VE TİC. A.Ş.

Address: Mersinli Mah. 1201/2 Sokak Temsil Plaza No:2/F Konak / İzmir-TÜRKİYE
Telephone: 0 (232) 431 2121
E-Mail: info@emskontrol.com

Company Stamp:

STAMP
**EMS KONTROL ELEKTRONİK
VE MAKİNE SAN. TİC. A.Ş.**
Mersinli Mahallesi, 1201/2 Sk. Temsil Plaza
No:2/F Konak / İZMİR
EGE V.D. 334 704 4628
Mersis No: 0334104452800001

Product's

Type: Temperature and Humidity Sensor
Brand: Ems Kontrol
Model: SS-412
Warranty Duration: 2 Years
Maximum Repair Time: 20 Days
Serial Number:



Vendor Company

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

STAMP

Product's

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Brand: Ems Kontrol
Model: SS-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.