



PANEL TYPE GAS CONTROL DEVICE

AR/ER/UR/CR/OR-711 USER MANUAL

TECHNICAL DATA

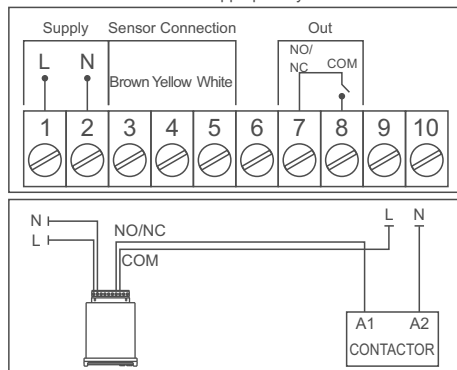
Product Name	Panel Type Gas Control Device
Input	220 V AC
Output	Relay (5A)
Measurement Range (NH ₃)	0-100.ppm
Sensitivity (NH ₃)	± 1 ppm
Accuracy (NH ₃)	± 2 ppm
Measurement Range (C ₂ H ₄)	0-100.ppm
Sensitivity (C ₂ H ₄)	± 0,1 ppm
Accuracy (C ₂ H ₄)	± 1 ppm
Measurement Range (SO ₂)	0-200.ppm
Sensitivity (SO ₂)	± 0,1 ppm
Accuracy (SO ₂)	± 1 ppm
Measurement Range (CO)	0-1.000 ppm
Sensitivity (CO)	± 1 ppm
Accuracy (CO)	± 5 ppm
Measurement Range (O ₂)	0-25 % vol
Sensitivity (O ₂)	± 0,1 % vol
Accuracy (O ₂)	± 1 % vol
Operating Temperature	-10...+55 °C
Storage Temperature	-20...+60 °C
If the device is to be used outside its operating temperature range, the manufacturer must be informed. The manufacturer's 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- Disconnect the electrical power when your device is not used for a long time.
- 6- 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.
- 7- Failures due to electrical connection errors and electrical voltage or current errors are not covered by the warranty.

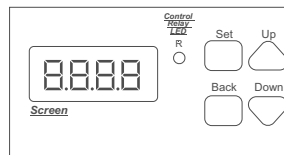
INSTALLATION

- 1- Remove the product from its packaging.
- 2- Make the cable connections appropriately.



- 3- Place the product in the appropriate location on the panel.
- 4- After power is supplied to the product, the word "OPEN" will appear on the screen for 30 seconds. The measurement process will then begin. To obtain accurate measurement values, it is recommended that the product remain in the environment for at least 5 minutes.
- 5- It is recommended to use shielded cable as the communication cable to prevent communication signals from being affected by external factors.
- 6- Since the communication cable will create resistance, check the measurement values again after installing the cable.

MAIN SCREEN



Set - Enter / Confirmation Button
Back - Back Button
Up - Up Arrow Button
Down - Down Arrow Button

STARTUP SCREEN



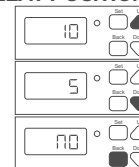
When power is supplied, all screen LEDs illuminate for 15 seconds. The screen displays **OPEN** for 15 seconds. It then transitions to the normal operating screen, and the gas data appears on the screen.

SET, HYSTERESIS VALUE, AND RELAY POSITIONS

While in the main menu, holding down the "Up" button displays **SET**,

holding down the "Down" button displays the **HYSTERESIS** values,

and holding down the "Back" button displays the **RELAY** positions.



ERROR DISPLAY

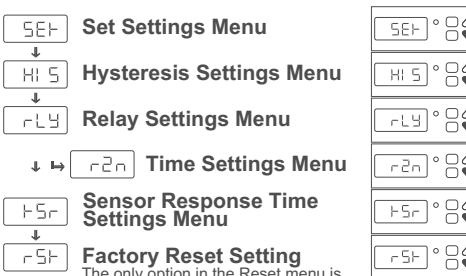
If communication with the sensors is lost, the word **Err** appears on the screen and the relay does not activate.



PROGRAMMING MENU

While in the main menu, pressing and holding the Set button for 5 seconds enters programming mode. The direction buttons can be used to navigate through the program options in sequence. Press the Set button to make a selection. Press the Back button to return to the main menu.

The menu contains the following program options in order:



When the menu you want to enter is displayed on the screen, press and hold the Set button for 3 seconds to enter that menu. Use the arrow keys to navigate between menu options. Press the Back button to return to the main menu.

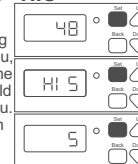
1- SETTINGS MENU "SET"

Press and hold the Set button for 5 seconds while in the main menu to enter programming mode. When you enter the programming menu, the first program option you see is the "SET" settings menu. Press and hold the Set button for 3 seconds to enter this menu. Use the up and down arrow keys to change the value. Press the Set button to make a selection. Press the Back button to return to the main menu.



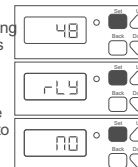
2- HYSTERESIS SETTING MENU "HIS"

While in the main menu, press and hold the Set button for 5 seconds to enter programming mode. When you enter the programming menu, the second program option that appears is the "HIS" hysteresis setting menu. Press and hold the Set button for 3 seconds to enter this menu. The value is changed using the up and down arrow keys. Press the Set button to make a selection. Press the Back button to return to the main menu.



3- RELAY SETTING MENU "rLY"

While in the main menu, press and hold the Set button for 5 seconds to enter programming mode. The third program option that appears when entering the programming menu is the "rLY" relay setting menu. Press and hold the Set button for 3 seconds to enter this menu. Use the up and down arrow keys to navigate between menu options. Press the Set button to make a selection. Press the Back button to return to the main menu.



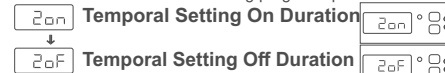
Selection range: NO // NC // on // oFF // rZn

- "rZn" is the time setting menu. Press the Set button to enter the time setting menu.
- "NO" (Normally Open) opens the contact below the set value and closes the contact above the set value.
- "NC" (Normally Close) closes the contact below the set value and opens the contact above the set value.

3.1- TIME SETTING MENU "rZn"

After navigating to the "rZn" option using the arrow keys in the "rLY" relay setting menu, press and hold the set button for 3 seconds to enter this menu. Use the up and down arrow keys to navigate between menu options. Press the Set button to make a selection. Press the back button to return to the main menu.

The menu contains the following program options in order:



4- SENSOR RESPONSE TIME SETTING MENU "tSr"

While in the main menu, press and hold the Set button for 5 seconds to enter programming mode. The fifth program option that appears when entering the programming menu is the "tSr" sensor response time setting menu. Press and hold the Set button for 3 seconds to enter this menu. Use the up and down arrow keys to change the value. Press the Set button to make a selection. Press the Back button to return to the main menu.



PROGRAMS

"SET" Set Settings Menu	Default	Range / Option
"SEt" Ammonia Set Value	10 ppm	0-100 ppm
Ethylene Set Value	10 ppm	0-100 ppm
Sulfur Dioxide Set Value	10 ppm	0-200 ppm
Carbon Monoxide Set Value	100 ppm	0-1.000 ppm
Oxygen Set Value	10 % vol	0-25 % vol

"HIS" Hysteresis Settings Menu	Default	Range / Option
"HIS" Ammonia Hysteresis Value	5 ppm	0-9.9 ppm
Ethylene Hysteresis Value	5 ppm	0-9.9 ppm
Sulfur Dioxide Hysteresis Value	5 ppm	0-9.9 ppm
Carbon Monoxide Hysteresis Value	50 ppm	0-99 ppm
Oxygen Hysteresis Value	5 % vol	0-9.9 % vol

"rLY" Relay Settings Menu	Default	Range / Option
"rLY" Relay Position	NO	NO / NC / on / oFF / rZn
"rZn" Temporal Setting Menu		
"Zon" Temporal Setting On Duration	0 minute	0-60 minute
"Zof" Temporal Setting Off Duration	0 minute	0-60 minute

"tSr" Sensor Response Time Setting Menu	Default	Range / Option
"tSr" Sensor Response Time Level	3	1-5

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: AR/ER/UR/CR/OR-711
Product Type: Panel Type Gas Control Device

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: 0334104462800001

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: 0334104462800001

Product's

Type: Panel Type Gas Control Device
Brand: Ems Kontrol
Model: AR/ER/UR/CR/OR-711
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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Model: AR/ER/UR/CR/OR-711

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

*For all changes, please visit emskontrol.com.