elmaslar

HEALTHTIME

DESIGN TURKEY
2010
Good Design Award



OC10

User Guide

CE 1984

Please read this manual thoroughly before use the device.

CONTENTS

SUBJECTS	PAGE NO
1. GENERAL INFORMATION	7
2. SAFETY GUIDELINES	7
3. INSTALLATION/USE	9
4. PREVENTIVE MAINTENANCE	17
5. TROUBLESHOOTING	21
6. AIRFLOW DIAGRAMS	23
7. TECHNICAL CHARACTERISTICS	25
8. LIST OF ACCESSORIES	25
9. ELECTROMAGNETIC IMMUNITY	27
10. WARRANTY (TERMS & CONDITIONS)	30
11. CERTIFICATES	31
12. MANUFACTURER COMPANY INFORMATION	31

GLOSSARY OF SYMBOLS


CAUTION CONSULT ACCOMPANYING DOCUMENTS


CLASS II EQUIPMENT


CONFORMITE EUROPE


NOT MOVED WITH HOOK


DATE OF MANUFACTURE

IPX1 PROTECTION AGAINST VERTICALLY FALLING DROPS


THIS SIDE UP


SHOULD BE DISPOSED ACCORDING TO WEEE DIRECTIVES


MANUFACTURER


TYPE B


FRAGILE, HANDLE WITH CARE

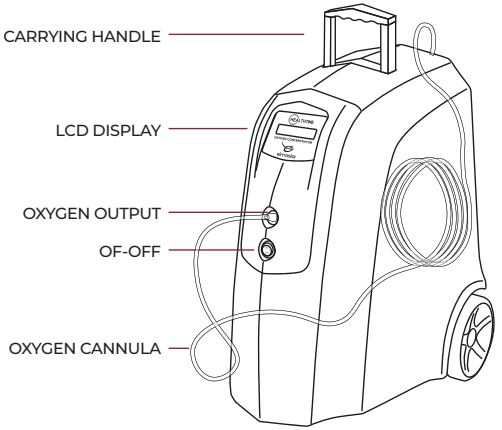

KEEP AWAY FROM FIRE

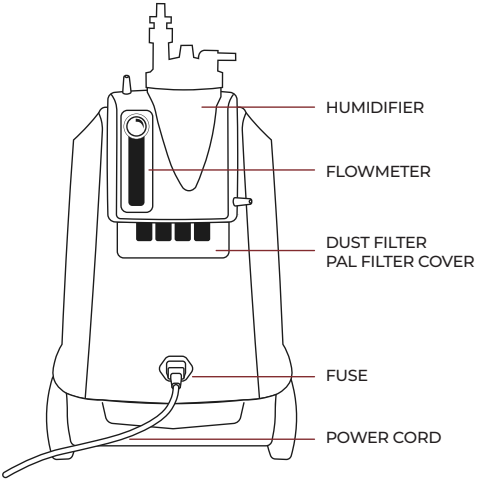
SN SERIAL NUMBER


TYPE BF


KEEP DRY


NO SMOKING


CARRYING HANDLE
LCD DISPLAY
OXYGEN OUTPUT
OF-OFF
OXYGEN CANNULA


HUMIDIFIER
FLOWMETER
DUST FILTER
PAL FILTER COVER
FUSE
POWER CORD

1. GENERAL INFORMATION

Before operating the device, make sure that you have carefully read and understood all the topics written in this manual.

Intended Use of the Device: It is used to provide oxygen therapy to the patients that oxygen therapy is required (such as heart, lung and other respiratory diseases) whom determined and recommended by the doctor.
Working Principle: This oxygen concentrator is designed for personal use at home by providing the separated oxygen from the air in the room. This device obtains %93 ±3 pure oxygen from the environment at the rate of 21% oxygen by using PSA technology. Thanks to the cannula attached to the nose, it allows the patient to receive highly concentrated oxygen directly.
Side Effects: As with any treatment, oxygen therapy has risks and unwanted side effects. The most important risks in oxygen treatment are accidents and fires related to the transportation, filling and use of oxygen devices. Since oxygen is a flammable and explosive substance, the oxygen source should be placed away from heat generating systems and the patient should never smoke during oxygen therapy. Potential side effects of exposure to high concentrations of oxygen are changes in normal physiological functions, oxygen-related tissue damage / oxygen toxicity, and carbon dioxide accumulation. Carbon dioxide accumulation is mostly seen as a result of using high levels of oxygen, and it is usually manifested by drowsiness in patients.
Patients Need Oxygen Therapy: Patients with Chronic Obstructive Pulmonary, Pulmonary Hypertension, Congestive Heart Failure, Cystic fibrosis, Lung cancer, Alpha 1 and similar patients.
Patient Population: As of 2015, COPD affects 174.5 million people in the world and this number corresponds to 2.4% of the world population. It occurs especially in people over the age of 40. It is seen at almost the same rates in men and women. COPD, which killed 2.4 million people in 1990, was the cause of death for 3.2 million people in 2015.
Contraindications: Untreated pneumothorax patients, patients using chemotherapeutics cannot use without specialist doctor's advice. The time and dosage given by the specialist doctor cannot be used. It cannot be used with other devices unless recommended by a specialist. The oxygen concentrator is not used as a life support unit.

General Features
It has a Safety and Solid body
LCD display showing the total usage time and fault notifications
Electrical cut-off warning for safety against high pressure, low pressure,high temperature
Thermo protected compressor
Light and easy to carry

2. SAFETY GUIDELINES

• The HEALTHTIME must only be used for purposes mentioned in this manual!
• Do not use this device as Life Supporting or Life Sustaining unit. Use your device according to your doctor's prescription and advices only, otherwise it may present a risk to your health (patient).
• Use of highly concentrated oxygen could be dangerous if not prescribed by authorized person. Please keep spare oxygen sources such as oxygen tube or bag ready for the patient considering possible malfunctioning of the device may occur anytime.
• Keep the device up right position during transportation to avoid damage in the cabinet.
• Switch off the device when not used by the patient.
• Working Conditions: Temperature 10 - 40 °C, Relative Humidity %20 - %60 RH, Altitude max 3000 m
• Storage Conditions: Temperature 10-60 °C, Relative Humidity %10 - %95 RH, Altitude max 4000 m

• During transportation or when not in use unplug the power supply cord. Do not allow unauthorized person to open the cabinet of the device. If the electric supply line suffers from frequent voltage fluctuation, we suggest using Voltage Regulator for the device to avoid unwanted damages in the sensitive electronic parts of the device.
• Do not unplug the power cable by hanging it on the device or by pulling the cable.
• Do not leak water on the device or emerge the device into water. If you think there is a chance of water may come in contact with the device, please unplug the power cable and inform technical service.
• Do not open the cabinet of the device when power cable connected. Only authorized technical service personnel is permitted to open the device. There are no parts inside the device which you can repair.
• Do not put the nasal cannula under heavy material like bed or cushion.
• Keep the device under surveillance when used by aged, child or disabled patient who may not able to inform any malfunctioning of the device may take place during the treatment.
• Call your doctor immediately in case of slightest disturbance seen in the patient during treatment.
• HEALTHTIME device produce highly concentrated oxygen which is not flammable but accelerates the combustion of material. To avoid all risk of fire do not smoke nearby the device and other accessories. HEALTHTIME should be kept away from all flames, incandescent sources and sources of heat, as well as combustible products like oil, grease, solvents, aerosols, etc.
• The manufacturer of seller of the device is not responsible for the problems that may occur due to wrong, unnecessary or unintended use of the device or use of wrong electrical voltage which not comply with electrical safety rules.
• Calibration requirement in the device during use of the device: During use of the device every 2000 hours or once in a year following calibration controls to be done by manufacturer.
a. Oxygen Concentrator percentage
b. Oxygen Flow rate
c. Oxygen outlet pressure
• Flow Cut-off Valve Against Fire: This feature available as standard in our device has double protection facility. The thermostat located in the compressor detect the increase in Motor temperature and shutdown the motor when the temperature reach to a deadline and a second thermostat located inside the device continuously measure the temperature inside the device and if any fire risk detected immediately stop the device and gives an alarm.
• Children, Lactating Women and Pregnant must use the oxygen concentrator under the control of specialist doctor. Oxygen Concentrator use requires a physician's prescription and are not intended for life support use. Although oxygen therapy can be prescribed for patients of all ages, the typical oxygen therapy patient is older than 65 years of age and sufferes from chronic obstructive pulmonary disease (COPD). Patients typically have good cognitive abilities and must be able to communicate easily. If the user is unable to communicate discomfort or unable to read and understand the concentrator labeling and instructions for use, then use is recommended only under the supervision of one who can. If any discomfort is felt while using the concentrator, patients are advised to contact their doctors. Patients are also advised to have back-up oxygen available in the event of a power outage or concentrator failure.
Lifetime is 5 years. Should be disposed according to weee (Waste Electrical and Electronic Equipment) Directive.
Brand of water-based lotions or ointments that are compatible with oxygen before and during oxygen therapy. Do not use petroleum or oil lotions or ointments for fire or burn vaccination. To avoid the risk of fire and burns, do not lubricate the oxygen concentrator fittings, fittings, pipes or other accessories.
Use of this device at a relative humidity higher than the maximum declaration height or outside the temperature range of the statement temperature or at a relative humidity higher than the maximum statement relative humidity; it is expected to affect the flow rate and oxygen percentage and consequently adversely affect the quality of treatment.
From children against choking risks caused by the cable and hose of the device, keep away from unconscious patients.
The device contains small and swallowable parts. Against the risk of swallowing keep away from children and unconscious patients.
If the device and its additional parts are used outside of their use purpose the manufacturer is not responsible for the faults that may occur.
After the use of spare parts other than the parts specified by the manufacturer the manufacturer is not responsible for the faults that may occur.
Disassemble or replacement of product parts not described in the user manual, from product safety damaged in case of combining with different products and the manufacturer is not responsible for any faults that may occur.
Keep the device away from children and pets.
The device is not suitable for use by more than one patient using the same parts.
It should be used with new single-use components in different patients.

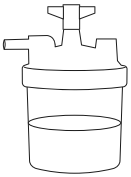
3. INSTALLATION/USE

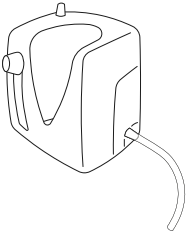
Please control the packing and the device on arrival. If there is any deformation ordamage in the packing or in the inside materials, please inform thecourieror the seller of the goods immediately. Take out from the package all components carefully controlling crash, breakage or any other damages.

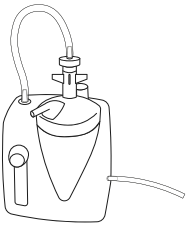
NOTE: IF HEALTHTIME Oxygen concentrator will not be used immediately, we suggest to keeping the components inside the package until use.

Let stand four (4) hours in user environment before start using the device.

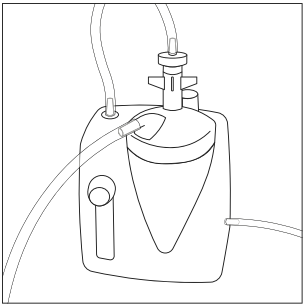
Fill the water humidifier with boiled and cooled water and close the lid.
Take care of not over filling the humidifier out of its maximum mark.
It must be cleaned with soap & water and rinsed properly once in a week.
The water label of the humidifier should be controlled frequently and do not permit to go down to its minimum mark by adding water regularly.

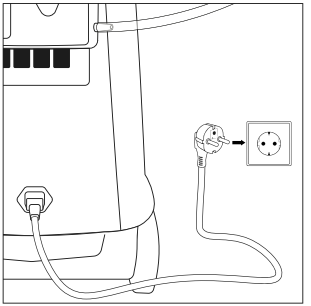


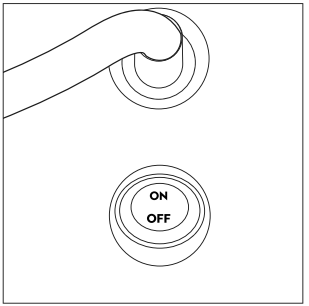


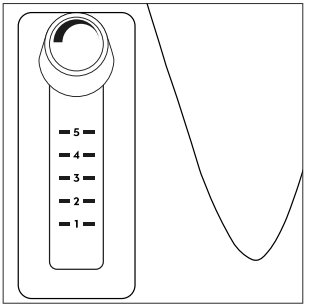


Connect the intermediate cannula between device and patient unit (flowmeter unit).
Place the humidifier in its position in patient's unit as shown in picture.
Plug in the electrical cable. Start the device by pushing the OFF-ON switch to ON position.
Adjust the flow rate of concentrate oxygen with the help of inbuilt flow meter within the range of 0-5 lt./min. as per doctor's prescription.
The ball located inside the flow meter will indicate the adjusted flow rate of oxygen.
There is no matter that requires your intervention on the LCD screen of the device.
The total operating time and malfunctions of the device are directly displayed on this LCD screen.
Please consult with "Troubleshooting" section of this manual if the device is not running properly.
To use a new device for the first time it is recommended to run the device for 30 min. without patient.
This period is necessary to achieve %93 ±3 oxygen concentration level at the initiation.
Repeat the same procedure if the device is not used for a time period of 15 days or more.
For daily use there is no need of following this instruction.







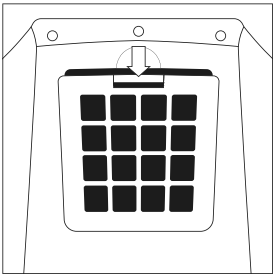


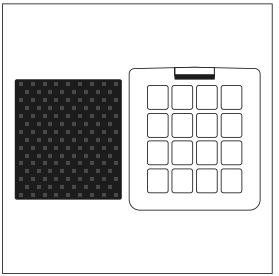
Please the device at the most suitable place in the room or near to the patient.
The device can be moved easily with the help of wheel fitted with the cabinet.
Do not cover the concentrator with any covering material.
There should be at least 30 cm distances between the device & the furniture in the room and the walls to avoid blocking in environmental air inlet to the device.
Do not blockthe air inlet to oxygen concentrator by any means.
Do not place the device on soft floors like bed, sofa etc. it may block air flows to the device.
Keep the device always vertical position and do not use the device during bath.
Do not smoke near the device when running. Keep the device away from sources of fire and heat.
It is dangerous to use the device with dirty filter or without filter.
Never run the device with wet filter.
Control the nasal cannula in a regular interval against twisting, leaking or bursting.
Replace the damaged cannula with new one.
Like most other electronic devices HEALTHTIME too is very sensitive towards radio frequency waves (parasites), please be aware of using mobile phones when running the device.
To get best efficiency from the device we suggest not shutting down and opening the device frequently in a short interval which may cause loss in life period of the device too.

4. PREVENTIVE MAINTENANCE

Please switch off the device and unplug the power supply cable before maintenance operation start.

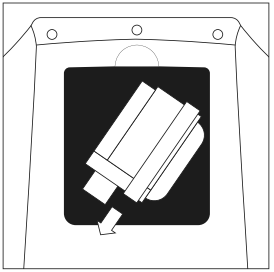
Do not use any liquid cleaning agent directly on the device. Petroleum based solvent & cleaner not to be used. Wipe the outer face of the cabinet with wet sponge and dry properly once in 30 days.

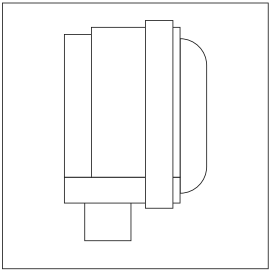




CLEANING OF DUST FILTER

Take out the dust filter placed ar rear side of the device once in every 7 days. The black color dust filter may clean from dust by simply shaking it and then wash with water only. Put in place after drying properly. Replace the filter when it is torn or ecery 90 days.



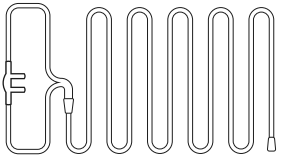


CHANGING OF PAL FILTER

Replace the pal filter with a new one every 60 days.

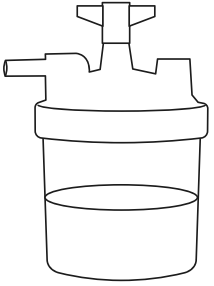
CHANGING OF NASAL CANNULA

Replace the nasal cannula with a new one every 30 days.



CLEANIN AND CHANGING HUMIDIFIER

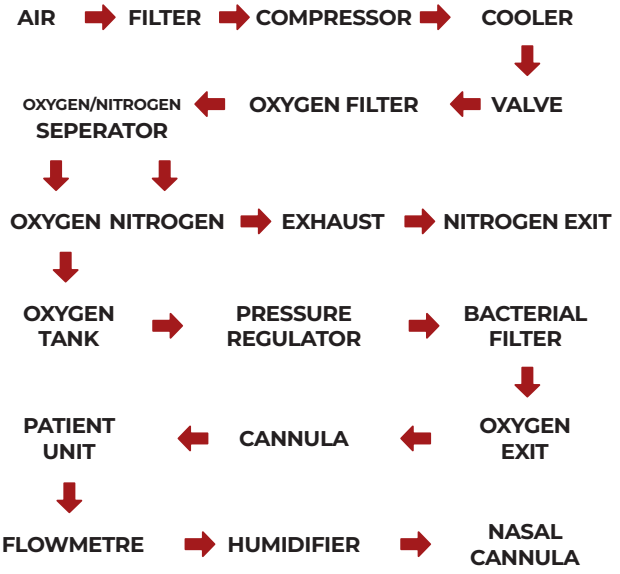
In every 7 days clean with soap and water, rinse properly and also replace with a new one every 90 days.



5. TROUBLESHOOTING

OBSERVATION	ALARM SOUND	SCREENSHOT	PROBABLE REASON/ CAUSES	SOLUTION
On opening there is alarm and device is not running.	OK	NO IMAGE	Electrical power supply cord is not properly connected either with device or in plug. There is no electricity in the plug, fuse burnt out.	Connect the electrical cord properly both ends. Test if there is electric in the plug or put the cord in another plug. Change the fuse.
High temperature alarm.	OK	HIGH TEMPERATURE	System may be turned to high temperature protecting mode.	Clean the black filter located at the rear side of the device. Check whether the ventilation is sufficient all around the device. Cooling fan may not working. Keeps the device waiting fot 40-50 mins. in switched off position the reopen. If the problem still continue call technical service.
High pressure alarm.	OK	HIGH PRESSURE	System may be turned to high pressure protecting mode.	Control the nasal cannula against possible breaking, twisting. Control the humidifier against clogging. Check whether flow meter is open or closed. If the problem still continue call technical service.
Low pressure alarm.	OK	LOW PRESSURE	System may be turned to low pressure protecting mode.	Control the dust filter if require clean it. Flow meter may settet at 5lt/min reset it to a lower value. Please check intermediate connecting hose may not be connected. If the problem still continue call technical service.
Low oxygen alarm.	OK	LOW OXYGEN	System may be turned to low oxygen protecting mode.	Control the dust filter, pal filter, nasal cannula end flow meter. If the problem still continue call technical service.
Call technical servise if the suggested troubleshooters are not helpful for solution of problems or for problems net mentioned in this table.				

6. AIRFLOW DIAGRAM



7. TECHNICAL CHARACTERISTICS

OXYGEN FLOW RATE	1 – 10 LPM
OXYGEN CONCENTRATION	%90±3 (10 lt/dk)
OUTLET PRESSURE	8±1 PSI
NOISE LEVEL	< 45 dBA
VOLTAGE / CURRENT	230 VAC / 50 Hz / 2,60 A max.
POWER	Max 500 Watt
WEIGHT	19 kg (net)
BOX DIMENTIONS	38*50*61 cm (ambalaj kutusu)
WORKING CONDITIONS	10-40°C, % 20 - % 60 RH 100kPa – 80 kPa
STORAGE CONDITIONS	10-60°C, % 10 - % 95 RH
ELECTRICAL SAFETY	TYPE B, CLASS II
CERTIFICATE	ISO 9001, ISO 13485, CE 1984

8. ACCESSORIES - PACKAGE INCLUDED

Package Included: 1 pc oxygen concentrator, 1 pc oxygen cannula, 1 pc humidifier, 1 pc power cord, 1 pc patient unit.

Accessories: Cannula and water container (humidifier).

Contact the authorized technical services for procurement.

Unsuitable parts or accessories may cause poor performance or malfunction of the device.

9. ELECTROMAGNETIC COMPATIBILITY (EMC) DECLARATION

This equipment generates, uses and can radiate radio frequency (RF) energy. This equipment may cause electromagnetic interference if it is not installed and used in accordance with the manual.This device has been tested for Medical Products in accordance with EN-60601-1-2:2015 and has been determined to comply with acceptable limits. These limits indicate that the device provides an acceptab- le level of protection against electromagnetic interference (EMC) if the device is used as specified in the manual.This device may be affected by portable and mobile RF communication devices. This equipment must not be stored together with other equipment.See the following tables for more information about this device and EMC.

GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC EMISSIONS

The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.

Emission test	Compliance	Electromagnetic environment – guidance
Emissions RF CISPR 11	Group 1	The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
Emissions RF CISPR 11	Class B	The device is suitable for use in all establishments including domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions used fordomestic purposes. IEC 61000-3-2	Class A	
Voltage fluctuations/ flickeremissions IEC 61000-3-3	Complies	

KILAVUZ ve İMALATÇININ BİLDİRİMİ - ELEKTROMANYETİK BAĞIŞIKLIK

Bu cihaz aşağıda belirtilen elektromanyetik ortamda kullanılmak amacıyla tasarlanmıştır. Bu cihaz müşterisi ya da kullanıcısı bu gibi ortamlarda kullanıldığından emin olmalıdır.

Immunity test	IEC 60601 Testlevel	Compliancelevel	Electromagnetic environment – guidance
Electrostatic discharges IEC 61000-4-2	± 8 kV contact ±2 kV, ±4 kV, ±8 kV,±15 kV air	± 8 kV contact ±2 kV, ±4 kV, ±8 kV,±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30
Electrical fast transient/burst IEC 61000-4-4	Power supplylines: ±2 kV Input/output lines:±1 kV 100 kHz repetitionfrequency	Power supplylines: ±2 kV Input/output lines:±1 kV 100 kHz repetitionfrequency	Mains power quality should be that of a typical commercial or hospital environment.
Surges Line-to-line IEC 61000-4-5	± 0,5 kV, ± 1 kV	± 0,5 kV, ± 1 kV	Mains power quality should be that of a typical commercial or hospital environment.
Surges Line-to-ground IEC 61000-4-5	± 0,5 kV, ± 1 kV, ± 2 kV	± 0,5 kV, ± 1 kV, ± 2 kV	
Voltage dips IEC 61000-4-11	0% UT;0.5 cycle 0°, 45 °, 90 °, 135 °, 180 °,225 °, 270 ° and 315 °	0% UT;0.5 cycle 0°, 45 °, 90 °, 135 °, 180 °,225 °, 270 ° and 315 °	Mains power quality should be that of a typical commercial or hospital environment.
	0% UT; 1 cycle and 70% UT;25/30 cycle Single phase: 0°	0% UT; 1 cycle and 70% UT;25/30 cycle Single phase: 0°	
Voltage interruptions IEC 61000-4-11	0% UT;250/300 cycle	0% UT;250/300 cycle	
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
Not: UT is the a.c. mains voltage prior to application of the test level.			
Conduced RF IEC 61000-4-6	150kHz to 80MHz: 3Vrms 6 Vrms (in ISM and amateur radio bands) 80% Am at 1kHz	150kHz to 80MHz: 3Vrms 6 Vrms (in ISM and amateur radio bands) 80% Am at 1kHz	Portable and mobile RF communications equipmentshould be used no closer to any part ofthe device including cables, than the recommendedseparation distance calculated from theequation applicable to the frequency the transmitter.Recommended separation distance: d= 0.35√ d= 1.2√ 80 MHz ile 800 MHz d= 1.2√ 800 MHz ile 2.7 GHz d= 2.3√ Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, asdetermined by an electromagnetic site survey, should be less than the compliance level in each frequency range.Interference may occur in the vicinity of equipment marked with the following symbol:
Radiated RF IEC 61000-4-3	10V/m 80% Am at 1kHz	10V/m 80% Am at 1kHz	

Note 1: 80 MHz and 800 MHz, the higher frequency range applies.

Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures,objects and people.

a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio,AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.

b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

c. Calibration for current injection clamps shall be performed in a 150 Ω system.

d. If the frequency stepping skips over an ISM or amateur band, as applicable, an additional test frequency shall be used in the ISM or amateur radio band. This applies to each ISM and amateur radio band within the specified frequency range.

e. Applicable to ME EQUIPMENT and ME SYSTEMS with RATED input current less than or equal to 16 A / phase and ME EQUIPMENT and ME SYSTEMS with RATED input current greater than 16 A / phase.

Recommended separation distances between portable and mobile RF communications equipment and the device

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the device as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter(m)			
	150 kHz to 80 MHz (out ISM and amateur radio bands) d= 1.2 √ P	150 kHz to 80 MHz (out ISM and amateur radio bands) d= 0.6 √ P	80 MHz to 800 MHz d= 1.2 √ P	800 MHz to 2.7 GHz d= 2.3 √ P
0,01	0,12	0,06	0,12	0,23
0,1	0,38	0,19	0,38	0,73
1	1,2	0,6	1,2	2,3
10	3,8	1,9	3,8	7,3
100	12	6	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W)according to the transmitter manufacture

Note 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

Note 2: The ISM (industrial, scientific and medical) bands between 0,15 MHz and 80 MHz are 6,765 MHz to 6,795 MHz; 13,553 MHz to 13,567 MHz; 26,957 MHz to 27,283 MHz; and 40,66 MHz to 40,70 MHz. The amateur radio bands between 0,15 MHz and 80 MHz are 1,8 MHz to 2,0 MHz, 3,5 MHz to 4,0 MHz, 5,3 MHz to 5,4 MHz, 7 MHz to 7,3 MHz, 10,1 MHz to 10,15 MHz, 14 MHz to 14,2 MHz, 18,07 MHz to 18,17 MHz.21,0 MHz to 21,4 MHz, 24,89 MHz to 24,99 MHz, 28,0 MHz to 29,7 MHz and 50,0 MHz to 54,0 MHz.

Note 3: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures,objects and people.

Radiated RF	Test Frequency (MHz)	Band a) (MHz)	Service a)	Modulation b)	Modulation b) (W)	Distance (m)	Immunity Test Level(V/m)
IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipments	385	380-390	TETRA 400	Pulse modulation b) 18 Hz	1,8	0,3	27
	450	380-390	GMRS 460, FRS 460	FM c) ± 5 kHz deviation 1 kHz sine	2	0,3	28
	710 745 780	704-787	LTE BANDI 13, 17	Pulse modulation b) 217 Hz	0,2	0,3	9
	810 870 930	800-960	GSM 800/900, TETRA 800, İDEN 820, LTE Bant 5	Pulse modulation b) 18 Hz	2	0,3	28
	1720 1845 1970	1700-1990	GSM 1800, CDMA 1900, GSM 1900, DECT, LTE Bant1,3,4,25, UMTS	Pulse modulation b) 217 Hz	2	0,3	28
	2450	2400-2570	Bluetooth,WLAN 802.11b/g/n, RFID 2450,LTE Bant 7	Pulse modulation b) 217 Hz	2	0,3	28
	5240 5240 5785	5100-5800	WLAN 802.11a/n	Pulse modulation b) 217 Hz	0,2	0,3	9

Note: If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.

a. For some services, only the uplink frequencies are included.

b. The carrier shall be modulated using a 50 % duty cycle square wave signal.

c. As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

The MANUFACTURER should consider reducing the minimum separation distance, based on RISK MANAGEMENT, and using higher IMMUNITY TEST LEVELS that are appropriate for the reduced minimum separation distance. Minimum separation distances for higher IMMUNITY TEST LEVELS shall be calculated using the following equation:

$E = 6 / d \sqrt{P}$

Where P is the maximum power in W, d is the minimum separation distance in m, and E is the IMMUNITY TEST LEVEL in V/m.

10. WARRANTY TERMS & CONDITIONS

1. Warranty period commences form the date of deliver of the product to client and is 2 years.

2. If the product is broken under the warranty period fixation period is added to the warranty. Fixation period of the product longest 30 (thirty) business days.

3. If you have a complaint, please take the complete device to your specialist dealer or send it to us in the original packaging, postage paid and include the warranty certificate with the specialist dealer's stamp.

4. Damages arising from improper use of the device are not covered by this warranty.

5. This warranty will be invalidated if the unit is interfered with by unauthorised persons.

6. Breakdowns emerged subject to matters contrary to the user guide are excluded from the terms of warranty.

7. Warranty is conditioned on the acceptance of these terms and conditions.

8. Consumable parts are not covered under warranty.

11. CERTIFICATES

CE 1984

ISO 9001:2015

ISO 13485:2016

Notified Body	Kiwa Belgelendirme Hizmetleri A.Ş. İTOSB 9. Cd. No:15 Tuzla / İstanbul / Türkiye

12. MANUFACTURER - AUTHORIZED TECHNICAL SERVICES

elmaslar

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