Nature's Bond

Breast Pump Instructions For Use

Pure Model 603

DEVON MEDICAL PRODUCTS

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Indications for Use

Nature's Bond breast pump is a single user device intended for lactating women to express and collect milk from their breasts to complement breastfeeding.

Description

Nature's Bond is a personal use electric breast pump that has two pumping modes and is capable of single and double pumping. Nature's Bond is to be used when the baby would normally be breastfeeding.

Contact

Devon Medical Product's dedicated Customer Service team is here to help. If you have any questions or concerns regarding the product please call 866-446-0092. To speak to a certified lactation consultant, please call our free hotline at 888-450-4441 x1.

Accessories

Pump

1 Carrying Bag

1 Cooler Bag

1 AC Power Adapter

Tubing and Connector

Pump Accesories

1. 2 Small Breast Shields (74mm)
2. 2 Medium Breast Shields (76mm)
3. 2 Breast Shield Connectors- Large Breast Shields Attached (80mm)
4. 2 Valves
5. 2 Membranes
6. 4 Bottles
7. 4 Caps
8. 4 Lids
9. 1 Filter

Warnings

Basic safety precautions should be taken when using electrical products, especially around children.

WARNING: If you are a mother who is infected with Hepatitis B, Hepatitis C or Human Immunodeficiency Virus (HIV), pumping breast milk will not reduce or remove the risk of transmitting the virus to your baby through your breast milk.

DANGER: To reduce risk of electrocution:

- The power adaptor is part of the breast pump.
- Always unplug electrical products immediately after use.
- Do not use while bathing.
- Do not place or store product where it can be submerged in water.
- Do not reach for device once it has fallen in water. Immediately unplug from electrical outlet.
- Do not leave device unattended when plugged into an electrical outlet.
- Do not position the breast pump in such a way that it is difficult to disconnect the adaptor plug from the main power supply.
- Remove batteries when breast pump is unlikely to be used for some time because battery leakage could become a hazard.
- Close supervision is necessary when used near children or people with disabilities.
- Use product only for its intended use. Do not use attachments not recommended by the manufacturer.
- Keep cord away from heated surface.
- Never use while sleepy or drowsy.
- Never drop or insert objects into any opening or tubing.
- Do not use outdoors, operate where aerosol products are being used, or where oxygen is being administered.
- Always inspect power adaptor and batteries prior to use for damage and exposed wires. If damage is found, immediately discontinue use of power adaptor or batteries and contact Devon Medical Product's Customer Service Team.
- Do not use outdoors or operate during transportation.

WARNING: To avoid health risk and reduce the risk of injury:

- This product is intended for single user only and should not be shared between users.
- Do not drive while pumping.
- Never use while pregnant, as pumping can induce labor.
- Clean and sanitize all parts that come in contact with your breast and breast milk prior to first use.

Warnings (continued)

WARNING: To avoid health risk and reduce the risk of injury:

- Wash all parts that come in contact with your breast and breast milk after every use.
- Inspect all appropriate pump components before each use.
- Do NOT continue pumping for more than two consecutive pumping sessions if no results are achieved.
- Do not thaw frozen breast milk in a microwave or in a pan of boiling water.
- If tubing becomes moldy, discontinue use and replace tubing.
- If breast milk backup occurs, you must clean the tubing before your next pumping session.

WARNING: Can lead to minor injury:

- Do NOT wrap cord around adaptor body.
- Use only the power adaptor that comes with the Nature's Bond breast pump.
- Pump only with the breast pump in an upright position.
- Do NOT shorten tubing.
- Make sure the voltage of the power adaptor is compatible with the power source.
- Plug the power adaptor into the breast pump first, then into the power source.
- Do NOT use antibacterial or abrasive cleaners/detergents when cleaning breast pump or breast pump parts.
- Never put breast pump motor in water or sterilizer, as this can cause permanent damage to the device.
- Do not attempt to remove the breast shield from your breast while pumping. Turn the breast pump off and break the seal between your breast and breast shield with your finger, then remove the breast shield from your breast.
- If pumping is uncomfortable or causing pain, turn the unit off, break the seal between the breast and the breast shield with your finger and remove breast shield from your breast.
- If experiencing pain in the breast or nipple, discontinue pumping by shutting off the device or breaking the suction with your finger, even if you think the pump is not the source of the pain.

IMPORTANT:

- Plastic bottles and component parts become brittle when frozen and may break when dropped
- Bottles and component parts may become damaged if mishandled (dropped, over tightened, or knocked over)
- Take appropriate care in handling bottles and components
- Do not use the breast milk if bottles or components become damaged

Cleaning

Before First Use

- Clean and sanitize all parts that come in contact with your breast and breast milk (breast shields, breast shield connectors, valves, membranes, breast milk bottles and lids).
- Visually inspect individual components for cracks, chips, tears, discoloration, or deterioration. If parts need replacing due to defects, please call **Devon Medical Products** Customer Service at 866-446-0092.

Cleaning After Each Use

- Clean all parts that come in contact with your breast and breast milk immediately after each use to avoid any dry up milk residue or bacterial growth.
- Disassemble all parts and rinse all parts that come in contact with your breast and breast milk in cool water to remove breast milk residue.

Washing in Sink

1. Soak the separated parts in warm soapy water for 5 minutes.
2. Clean with a clean dish cloth or soft brush.
3. Rinse the separated parts with clear water.
4. Allow all parts to air dry in a clean area.
5. Store dry parts when not in use.

Washing in Dishwasher

1. Wash the separated parts on the top rack of the dishwasher.
2. Allow the parts to air dry in a clean area.
3. Store dry parts when not in use.

IMPORTANT NOTES:

- Make sure all parts are completely dry before reassembling and storing.
- Tubing should never be washed in the dishwasher. Refer to “Tubing Care” section for special cleaning instructions for tubing.

Cleaning (continued)

Sanitize Daily

1. Wash hands thoroughly.
2. Separate all parts that come in contact with your breast or breast milk (breast shields, breast shield connectors, valves, membranes, breast milk bottles and lids).
3. Fill a pot with enough water to cover all parts.
4. Bring water to a boil.
5. Place the separated parts in boiling water for 10 minutes.
6. Allow water to cool and gently remove all parts from water with a pair of tongs.
7. Place all parts on a clean surface and allow parts to air dry.
8. Store dry parts when not in use.

NOTE: Every 24 hours, the pump should be wiped clean with a soft damp cloth and air dried before storage. Allow to air dry. Never submerge the pump to clean it.

Tubing Care

Inspect the tubing after each use for condensation and/or breast milk. It is not necessary to clean the tubing after each use unless on or both are present.

Condensation in Tubing:

After you have completed pumping, continue to run the pump with tubing still attached for 2 minutes or until dry.

Milk in Tubing:

1. Turn off the pump and unplug from power source.
2. Remove the tubing from the unit and breast shields.
3. Wash tubing in warm soapy water, then rinse in clear water.
4. Hang tubing to air dry.

NOTE: Proper positioning of breast shields will help prevent milk overflow into the tubing. Consult page 8 for more information.

Assembly of Pump Kit

1. Wash hands before touching breast pump, kit and breasts, and avoid touching the inside of containers and lids.
2. Place breast pump on a clean dry surface.
3. Securely attach breast shields to breast shield connectors.
4. Snap membranes onto valves.
5. Push assembled valves and membranes onto breast shield connectors.
   NOTE: The large breast shield is already attached to the connector.
6. Tightly screw bottles onto breast shield connectors.
7. Insert green ends of tubing into the back of breast shield connectors.
8. **For double pumping,** insert free ends of tubing onto both parts of tubing connector on pump.
9. **For single pumping,** insert free end of tubing onto one port of tubing connector on pump. Place port cap over unused port.
10. Correctly install 6 AA batteries into the battery enclosure located on the back of the pump.
11. To use AC power, plug the power adapter into the power jack on the pump. Plug the power adapter into a safe, proper electrical outlet.

Breast Shield Fit & Positioning

Breast Shield Fitting

Breast shields that fit properly and are positioned correctly are an important part of your pumping session. Properly fitted and positioned breast shields will ensure a comfortable and successful experience using your Nature's Bond breast pump.

NOTE: Nature's Bond Breast shields fit securely into each other. The large breast shield is already attached, however if you are medium, leave the large breast shield connected and attach the medium sized breast shield inside that.

If you have any questions about proper fit and positioning of your breast shields, contact your healthcare professional or our free lactation consultant hotline at 888-450-4441.

To ensure proper fit:

- Center nipple into the tunnel of the breast shield so that very little to no parts of your areola can be pulled into the tunnel during pumping session.
  NOTE: Your nipple should be able to move unrestricted when pump is on

To ensure proper positioning:

- Sit in a comfortable, upright position holding breast shields at a 90 degree angle
- Avoid leaning forward or tilting the breast shields downward during pumping session to prevent milk from leaking into tubing.

Tips for Proper Fitting:

- The nipple should be centered in the breast shield tunnel and move freely and comfortably, minimizing friction points.
- Minimal or no part of the areola should be pulled into the breast shield tunnel when the pump is on.
- You should feel a gentle compression on your breast, allowing for rhythmic expression of milk.
- After pumping, your breast should feel less full with no areas of hardness.
- Contact your health professional or our certified lactation consultant hotline if you experience little to no milk expression, or if expression is painful.

Breast Shield Positioning

While pumping, you should maintain an upright position with the breast shields held at a 90 degree angle to the floor. When held correctly, the bottles should be at a slight angle. In order to prevent milk leakage into the tubing, avoid leaning forwards or tilting the breast shields downward during pumping as this can decrease the effectiveness of the milking process.

Device Operation

Safety and Health Concerns

- Wash hands before touching breast pump, kit and breasts. Avoid touching the inside of containers or lids.
- Always inspect breast shields, connectors, valves, membranes, and tubing prior to use for cleanliness.
- Make sure tubing is not kinked or pinched while pumping.

Pumping

1. Center the assembled breast shields over your nipples and hold snugly to maintain a firm seal.
2. To begin pumping, press the "Power" button. When the device is turned on, a green LED will illuminate.
3. The Nature's Bond breast pump has two pumping phases, Stimulation mode and Expression mode. During Stimulation mode, a green LED will illuminate. During Expression mode, a blue LED will illuminate.
4. The two phases can be switched by pressing the "Mode" button. The pump will start in Stimulation Mode and beep after 2 minutes when it is time to switch to Expression Mode.
5. Vacuum strength can be adjusted by pressing the "Up" and "Down" buttons. There are a total of 6 vacuum settings. Adjust accordingly to your comfort level.
   NOTE: The average duration of one pumping session varies from 5 minutes on one breast, to 20 minutes on both breasts.
6. At the end of your pumping session, unplug the tubing from the breast shield connectors before setting down the bottles.
7. Close each bottle with a lid. Refer to "Storing Breast Milk" section for storage guidelines.
8. Allow the pump to continue running while you store the breast milk. This will allow any condensation that has formed in the tubing to dry out.
9. Turn off the breast pump and unplug from the power source.
10. Remove tubing from pump before storing.
11. Disassemble the pieces and clean per the Cleaning Instructions.

Battery Operation

- A solid yellow LED illuminating during treatment indicates "Low Battery." After 2 minutes, the solid yellow LED will change to a flashing yellow LED and the system will shut down. In the event of low battery, the device can be powered by plugging the AC adapter into a proper, safe electrical outlet.
- Powered by 6 AA batteries.
- Approximately 2 hours of pumping time under battery operation.

Storing Breast Milk

Milk Storage Guidelines

Where	Temperature	Time	Comments
At room temperature (fresh milk)	66° to 78° F (19° to 26° C)	4 hours (ideal) up to 6 hours (acceptable)*	Contents should be covered and kept as cool as possible; covering the container with a damp towel may keep milk cooler.
Insulated cooler bag	5° -39° F (-15° -4° C)	24 hours	Keep ice packs in constant contact with milk containers; limit opening cooler bag.
In a refrigerator	<39° F (<4° C)	72 hours (ideal) up to 8 days (acceptable)**	Collect in a very clean way to minimize spoilage. Store milk in the back of the main body of the refrigerator.
Freezer (compartment of refrigerator)	5° F (-15° C)	2 weeks	
Freezer (compartment of refrigerator with separate doors)	0° F (-18° C)	3 – 6 months	Store milk away from sides and toward the back of the freezer where temperature is most constant. Milk stored longer than these ranges is usually safe, but some of the fats break down over time.
Deep Freezer	-4° F (-20° C)	6 – 12 months	

References: LLLI

NOTES:

- Store Milk in 1oz - 4oz portions
- Label each container with the date and time
- When storing breast milk in the refrigerator, make sure to store away from door in order to avoid fluctuations in temperature.
  NOTE: If freezing, place the container in the rear of freezer where the temperature is the coldest

Preparing Breast Milk

- Thaw the oldest expressed milk first
- Thaw frozen breast milk overnight in the refrigerator (about 12 hours). Thawed breast milk is safe in the refrigerator for up to 24 hours after thawing. **NOTE**: Do not refreeze thawed breast milk.
- For quicker thawing, hold breast milk container under warm running water.
- To warm milk, place sealed container in a bowl of warm water for 20 minutes to bring to body temperature.
- If you are adding expressed breast milk to a container of already frozen breast milk, make sure to cool the freshly expressed breast milk before adding it to the previously frozen or chilled milk.

Feeding Breast Milk

It is recommended that breastfeeding is well established prior to bottle feeding your baby.

- Always inspect the bottle, nipple and other components immediately before and after each use. If nipple appears cracked or torn, discontinue use immediately.
- To prevent possible choking hazard, test strength of nipple by pulling on bulb portion of the nipple.
- Do not attempt to enlarge the nipple hole.
- Infants must not be bottle fed without adult supervision.
- Nipple should not be used as a pacifier.

Troubleshooting

Low or No Suction:

- Check valve and tubing for chips and cracks. If flawed, replace valve or tubing respectively.
- Inspect breast shields and breast shield connectors for chips or cracks and ensure they are securely attached to each other.
- Check all connections to ensure that they are tight and secure. Remove the tubing from the pump and place a finger over the tubing connector. If you feel suction, the pump is operating properly, but the set may be assembled incorrectly.
- For single pumping, be sure the port cap is covering one port on the tubing connector in order to feel full suction.

Will not power on:

- Check to make sure the outlet is proper and functioning.
- If operating on battery power, be sure the batteries have been inserted correctly. Replacement of batteries may be necessary after continuous use.

Milk in Tubing:

- Ensure that the breast shields are being held at a 90 degree angle to the floor. Posture and positioning will affect the milking process. Refer to "Breast Shield Fit and Positioning" for more instructions.
- Refer to "Tubing Care" for tubing cleaning instructions.

If pumping causes discomfort:

- Try lowering the vacuum strength by hitting the "Down" button on the pump.
- Refer to "Breast Shield Fit and Positioning" to ensure proper fit of breast shields. A smaller or larger breast shield may be needed.

For additional tips and clinical support, contact our certified lactation vconsultant hotline at 888-450-4441 x1.

Symbols List

	**Warning/Caution:** See instructions for use
	**Dangerous Voltage** **Electrical shock hazard.** Disconnect LINE CORD before servicing; refer servicing to qualified service personnel.
	Date Of Manufacture
	Type BF Applied Part
	Keep Dry
SN	Serial Number
LOT	Manufacture Lot Number
EC REP	Authorized Representative in the European Community
	Class II Equipment
	Use By
	Manufacturer
REF	Catalog / Model Number
	ATTENTION: **Consult ACCOMPANYING DOCUMENTS.** This symbol is used to direct the user to refer to documentation for additional information regarding the system use or description.
IP21	Protected against solid foreign objects of 12.5mm and greater and vertically falling water drops.
	Waste Electrical Goods Recycled
ETL CLASSIFIED Intertek 4010181	Conforms to AAMI STD ES.60601-1, HA 60601-1-11, IEC STD 60601-1-6 Certified to CSA STD C22.2 No.60601-1, No. 60601-1-6, No. 60601-1-11

Specification

Dimensions For Main Unit:	185mm X 126mm X 57mm
Flow Rate; No Filter; Under Maximum Pressure:	≥7 L/min
Highest Negative Pressure At Stimulation Stage:	≤160mmHg
Highest Negative Pressure At Expression Stage:	≤210mmHg
Operating Cycle At Stimulation Stage:	Approx.120 times/min
Operating Cycle At Expression Stage:	Approx. 60 times/min
AC Input Voltage Range:	100-240VAC
Operating Frequency:	47-63HZ
Input Current:	600mA, Max
Output Current:	2A, Max
Output Power:	18W
DC Output Voltage Range:	Adaptor: 12V+/-5% Battery: 1.5V x 6
Weight Of Main Unit:	Approx. 400g
Battery Specifications:	6 x 1.5 Vdc AA LR6 Battery
Environmental Conditions:	≤60dB(A)
Operating Atmospheric Pressure:	700hPa-1060hPa
Storage Conditions:	Temperature: -25°C-70°C Humidity: 0-93%
Operating Conditions:	Temperature: 5°C-40°C Humidty: 15%-93%

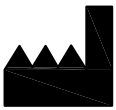
Disposal

Medical equipment and devices should be disposed of in proper containers that meet Environmental Protection Agency standards. Check with local State Laws & Regulations to see what is required in your state or contact your local representatives.

Maintenance and Replacement Parts

The **Nature's Bond** device contains no user serviceable parts inside: Opening or tampering with this device will void the warranty. In the event the **Nature's Bond** device requires repairs, it should be returned to the medical equipment company or to **Devon Medical Products** directly. Expected lifetime of the device is two years under normal use.

Manufactured For



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Warranty Information

Devon Medical Products warrants its **Nature's Bond** breast pump, excluding accessories ("Breast Pump") to be free from defects in workmanship and materials for a period of one (1) year from the date Device is delivered to the original purchaser ("Breast Pump Warranty Period"). In addition, **Devon Medical Products** warrants its Breast Pump Accessories, (defined as bottles, caps, tubing sets, carrying case and breast shields) ("Accessories"), to be free from defects in workmanship and materials for a period of ninety (90) days from the date the Accessories are delivered to the original purchaser ("Accessories Warranty Period"). This Limited Warranty is extended only to the original purchaser (defined as the original purchaser from the distributor) and is non-transferable. **Devon Medical Products**' sole obligation under this Limited Warranty shall be, at its sole discretion, to repair or replace a Device which is defective in either workmanship or material. This is the sole remedy of the Purchaser. In addition, this Limited Warranty does not cover any Device which may have been damaged in transit or has been subject to misuse, neglect, or accident; or has been used in violation of **Devon Medical Products**' instructions, including, without limitation, the instructions contained in the Operation Manual.

THERE ARE NO WARRANTIES THAN THOSE EXPRESSLY STATED HEREIN.

TO THE EXTENT PERMITTED BY LAW, **DEVON MEDICAL PRODUCTS** DOES NOT MAKE ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AS TO ANY PRODUCT OR DEVICE, WHETHER OR NOT THAT PRODUCT OR DEVICE IS COVERED BY ANY EXPRESS WARRANTY CONTAINED HEREIN.

IN NO EVENT SHALL **DEVON MEDICAL PRODUCTS** BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR INDIRECT DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF PROFITS, USE OR TIME INCURRED BY PURCHASER OR END USER). IN ADDITION, **DEVON MEDICAL PRODUCTS** SHALL NOT BE LIABLE FOR ANY EXEMPLARY OR PUNITIVE DAMAGES.

Appendix 1

Important information regarding Electro Magnetic Compatibility (EMC)

With the increased number of electronic devices such as PC's and mobile (cellular) telephones, medical devices in use may be susceptible to electromagnetic interference from other devices. Electromagnetic interference may result in incorrect operation of the medical device and create a potentially unsafe situation. Medical devices should also not interfere with other devices.

In order to regulate the requirements for EMC (Electro Magnetic Compatibility) with the aim to prevent unsafe product situations, the EN 60601-1-2: 2001+A1:2006 standard has been implemented. This standard defines the levels of immunity to electromagnetic interferences as well as maximum levels of electromagnetic emissions for medical devices.

Appendix 2

A. Instructions for use

1. MODEL 603 needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the ACCOMPANYING DOCUMENTS;

2. Portable and mobile RF communications equipment can affect MODEL 603.

B. Technical description

1. Warning: the use of **accessories, transducers and cables** other than those specified with the exception of transducers and cables sold by the manufacturer of the MODEL 603 as replacement parts for internal components, may result in increased EMISSIONS or decreased IMMUNITY of the MODEL 603.

2. Warning: the MODEL 603 should not be used adjacent to or stacked with other equipment

3. ## Guidance and Manufacturer's Declaration - Electromagnetic Emissions

The MODEL 603 is intended for use in the electromagnetic environment specified below. The customer or the user of the MODEL 603 should assure that it is used in such an environment

Emissions	Compliance	Electromagnetic Environment Guidance
RF emissions CISPR 11	Group 1	The MODEL 603 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.
RF emissions CISPR 11	Class B	The MODEL 603 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable	

Appendix 2

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The MODEL 603 is intended for use in the electromagnetic environment specified below. The customer or the user of the MODEL 603 should assure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment Guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 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	±2 kV for power supply lines and dc lines	±2 kV for power supply lines and dc lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line(s) and neutral ± 2 kV line(s) to earth	±1 kV line(s) and neutral ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % UT (>95 % dip in UT) for 0,5 cycle 40 % UT (60 % dip in UT) for 5 cycles 70 % UT (30 % dip in UT) for 25 cycles <5 % UT (>95 % dip in UT) for 5s	<5 % UT (>95 % dip in UT) for 0,5 cycle 40 % UT (60 % dip in UT) for 5 cycles 70 % UT (30 % dip in UT) for 25 cycles <5 % UT (>95 % dip in UT) for 5s	Mains power quality should be that of a typical commercial or hospital environment. If a dips or an interruption of mains power occurs, the current of the MODEL 603 may be dropped off from normal level, it may be necessary to use uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE: U_T is the a.c. mains voltage prior to application if the test level.

Appendix 2

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The MODEL 603 is intended for use in the electromagnetic environment specified below. The customer or the user of the MODEL 603 should assure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment Guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 Hz to 80 MHz	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the MODEL 600, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance Recommended separation distance: d = 1.2√P d = 1.2√P 80MHz to 800MHz d = 2.3√P 800MHz to 2.5GHz 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 is metres (m)** Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, (a) should be less than the compliance level in each frequency range (b). Interference may occur in the vicinity of equipment marked with the following symbol: 
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	

NOTE 1: At 80 MHz, the higher the 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 MODEL 603 is used exceeds the applicable RF compliance level above, the MODEL 603 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the MODEL 603.

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

Appendix 2

Recommended separation distances between portable and mobile RF communications equipment and the MODEL 603

The MODEL 603 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the MODEL 603 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the MODEL 603 as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter	**Separation distance according to frequency of transmitter (m)**
	150 kHz to 80 MHz
(W)	$d = 1.2\sqrt{P}$
0.01	0.12
0.1	0.38
1	1.2
10	3.8
100	12

For transmitters rated at a maximum output power not listed above, the recommended separation distance d 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 manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the separation distance for 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.

Notes

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