



Art. 19040

**EN** **Operator's manual**  
**smart** Sensor

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# GARDENA smart Sensor

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1. SAFETY .....	4
2. FUNCTION .....	6
3. INITIAL OPERATION .....	7
4. OPERATION .....	13
5. MAINTENANCE .....	15
6. STORAGE .....	16
7. TROUBLESHOOTING .....	17
8. TECHNICAL DATA .....	18
9. SERVICE/WARRANTY .....	19

## Translation of the original instructions.



For safety reasons, children and young people under 16 as well as anyone who is not familiar with these operating instructions should not use the product. Persons with reduced physical or mental abilities may use the product only if they are supervised or instructed by a responsible person. Children must be supervised to ensure that they do not play with the product. Never operate the product when you are tired, ill or under the influence of alcohol, drugs or medicine.

### *Intended use:*

The **GARDENA smart Sensor** is intended to control the smart system taking into account soil moisture and temperature in private domestic gardens, allotments and greenhouses.

The **smart Sensor** can only be used together with the **GARDENA smart Gateway**.



**DANGER! Risk of physical injury!**

→ **The GARDENA smart Sensor must not be used for industrial purposes or in conjunction with chemicals, foodstuffs, easily flammable and explosive materials.**

## 1. SAFETY

**Important!**  
**Read the operator's manual carefully before use and keep for future reference.**



**DANGER!**  
**Risk of suffocation!**

**Small parts can be easily swallowed. There is also a risk that the polybag can suffocate toddlers. Keep toddlers away when you assemble the product.**



**DANGER! Cardiac arrest!**

**This product makes an electromagnetic field while it operates. This field may under some conditions interfere with active or passive medical implants. To decrease the risk of conditions that can possibly injure or kill, we recommend persons with medical implants to speak with their physician and the medical implant manufacturer before you operate the product.**

Do not use damaged products. Ensure that all parts are correctly disposed of with immediate effect (please see Chapter 6. STORAGE "Disposal/Disposal of the batteries").

Keep damaged parts out of the reach of children.

Regularly examine the product for damage.

There is a risk of tripping. Position the sensor in such a manner that it can be seen at all times.

The product will become hot when exposed to sunlight. Touching the product in such a condition can result in slight burns if touched.

Ensure that the product is only used within the stated temperature range  $-1\text{ }^{\circ}\text{C}$  to  $+50\text{ }^{\circ}\text{C}$ .

### **Batteries:**



**DANGER!**

**Replace flat batteries. If the batteries are completely flat, battery acid could leak.**

Do not use re-chargeable batteries.

Regularly examine the batteries for damage.

Do not use damaged batteries. Ensure that they are correctly disposed of (please see Chapter 6. STORAGE "Disposal/Disposal of the batteries").

Keep damaged batteries out of the reach of children.

To prevent failure of the Sensor due to weak batteries in conjunction with a lengthy absence, batteries should be replaced in due course. This will depend on the previous operating life of the batteries and the probable length of absence, which should not exceed 6 month in total.

***Information regarding use:***

The Soil Moisture Sensor is equipped with a safety switch. If the batteries are flat, the selected watering time of the smart App will be used for watering.

The spread of moisture in the soil after watering or rainfall is rather slow. In the worst-case scenario it may happen that irrigation and a rain shower overlap until the required soil moisture is attained.

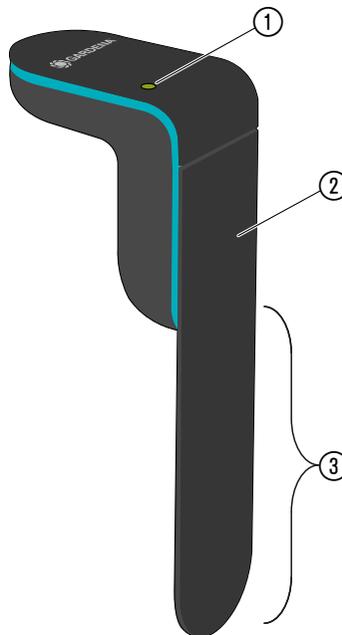
## 2. FUNCTION

The Sensor measures the soil moisture at the root level of the plants and the temperature near the soil automatically and sends the measured results to the Gateway. (The values can be read using the **GARDENA smart App**).

If the batteries are flat and are not replaced, the smart App will function with the program selected.

→ Replace batteries (see 3. INITIAL OPERATION „To insert batteries“).

### Controls/Display:



- ① **Connection-LED:**  
**Green flashing for 3 min.:** During connection  
**Green illuminating for 1 sec:** Sensor is connected  
**Red flashing for 10 sec:** Sensor is not connected
- ② **Temperature sensor** (inside the product)
- ③ **Measuring area**

### 3. INITIAL OPERATION

#### *To insert batteries:*

The batteries are not included in the scope of delivery.

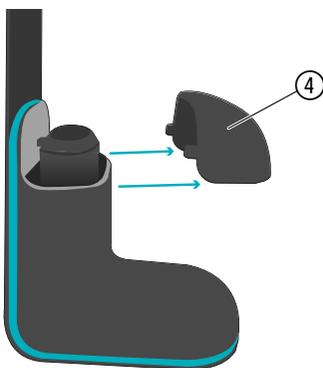
**The Sensor must only be operated with 2 x alkalimanganese (alkaline) batteries type LR6 (AA) (Mignon).**

The operating period is approx. 6 months. The operating period can vary depending on ambient temperature and transmission frequency.

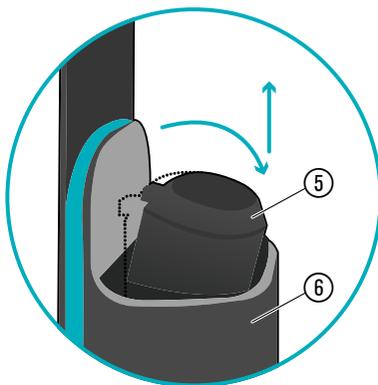


#### **CAUTION!**

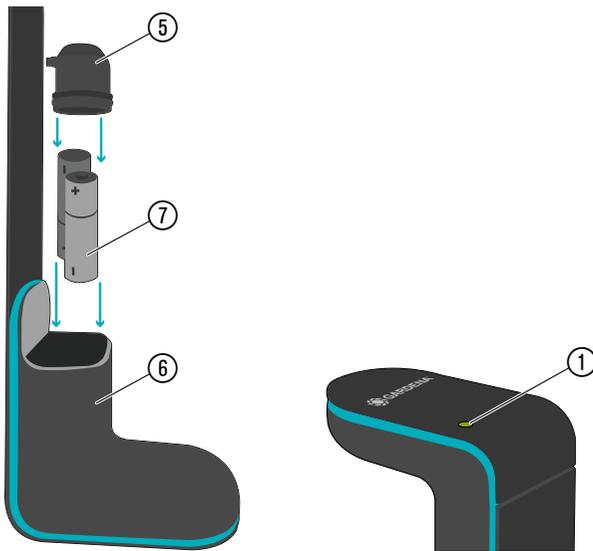
**Rechargeable batteries should not be used!**



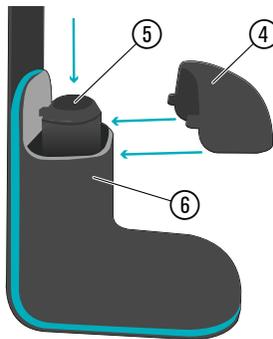
1. Pull the lid ④ outwards.



2. Pull the battery compartment cover ⑤ outwards until there's a click and then pull the battery compartment cover ⑤ upwards.



3. Insert the batteries ⑥ into the battery compartment ⑦.  
Make sure that the polarity is correct.  
*The LED ① flashes green.*



4. Push the battery compartment cover ⑤ back onto the battery compartment ⑥.
5. Slide the lid ④ back onto the sensor.  
*The inclusion mode has been activated.*
6. **Make sure that the Connection LED flashes green before continuing.**
7. Follow the instructions in the **GARDENA smart App**.

If inclusion has failed (no green LED), push the battery compartment cover ⑤ for approx. 10 seconds to reset the sensor.

## **To select the correct location:**

### **Correct location:**

The Sensor must be positioned at a location in the watering area which is exposed to the same climatic conditions as the plants (sun, wind, rain, etc.) for which a status is to be displayed.

If you use drip irrigation, place the sensor near a dripping point.

If you would like to place the sensor in a planter, choose a spot at least 5 cm from the edge.

If you would like to place the sensor in the lawn, first strip the top layer of the lawn before continuing.

Place the sensor so that there are no obstacles between the sensor and the Gateway.

### **Incorrect location:**

To rule out erroneous results caused by waterlogging, the Sensor should not be positioned in dips in the ground.

In direct sunlight, it should be noted that the measured temperature can differ from the actual temperature.

When used in a flower pot, the sensor must be at least 5 cm from the edge of the flower pot.



### **CAUTION!**

**Damage to the sensor from the lawn mower.**

**→ The cutting height of the lawnmower must be at least 30 mm.**

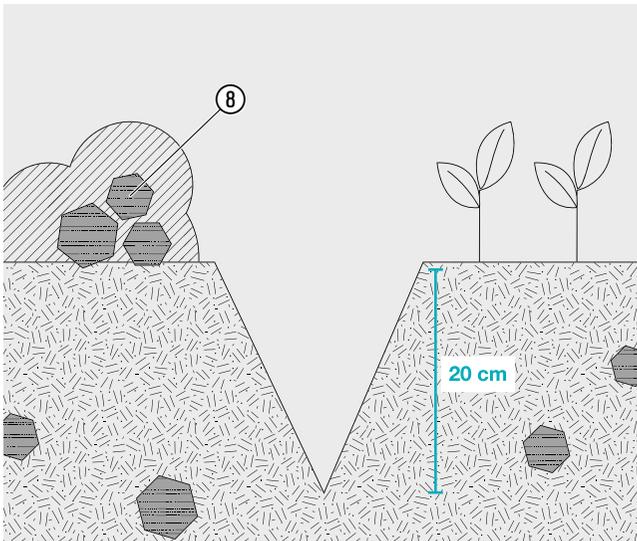
## To plant the Sensor:



### CAUTION!

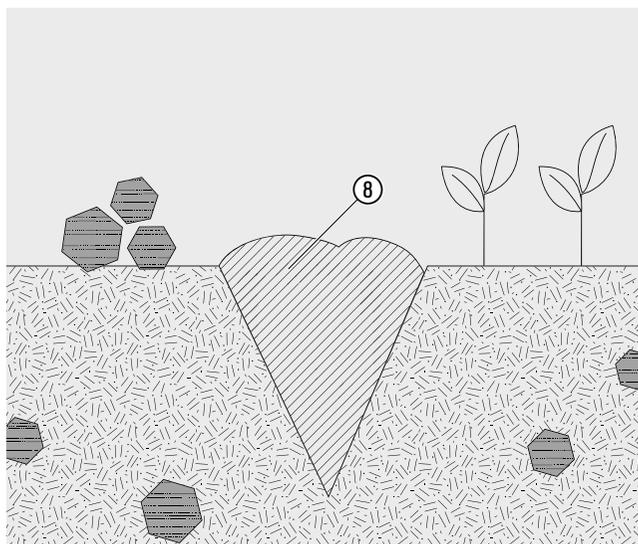
The measuring area will only measure the soil moisture correctly if the measuring area is in full contact with the ground on all sides! No air should be trapped at the measuring area in the ground.

### Remove the soil:



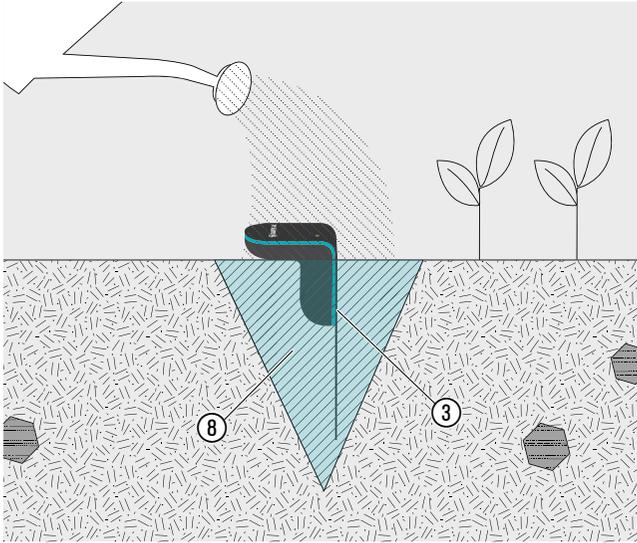
1. Dig a funnel-shaped hole in the ground ⑧ at least 20 cm deep.
2. Break up the soil ⑧ removed and take out any stones and thick roots.
3. Make sure there are no metal objects near the sensor.

## Prepare the soil:



4. Moisten the soil if the soil is dry.
5. Replace the damp broken-up soil ⑧ in the funnel-shaped hole without packing tight.

## Place the sensor:



6. Push the sensor into the soil ⑧ up to the lower edge of the horizontal part of the sensor head (The sensor needs to be pushed into the soil at least to the **min** mark).  
*Here the measuring area ③ must be in full contact with the damp soil on both sides.*
7. Press down the soil ⑧ around the measuring area ③ lightly.
8. Water the area around the Sensor with approx. 5 litre water.  
*It may take several hours until the sensor measures the actual soil moisture.*
9. If you place the sensor in the lawn, cut the stripped-off lawn into pieces and place them around the sensor.

## 4. OPERATION

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### *Operation with the GARDENA smart App:*

You can use the **GARDENA smart App** to control all **GARDENA smart products** from anywhere at any time.

You can download the free **GARDENA smart App** from the Apple App Store or from the Google Play Store.

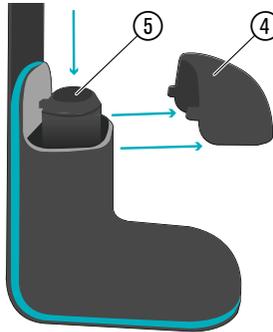
In order to include, a **GARDENA smart Gateway** with internet connectivity is needed. All **GARDENA smart products** are integrated via the app. Follow the instructions inside the App.

### *Displays of the sensor in the app:*

- Soil moisture
- Temperature
- Battery status
- Signal strength

## Factory Reset:

The smart Sensor will be reset to the factory settings.



1. Pull off the lid ④.
2. Push the battery compartment cover ⑤ for a short time.  
*New connection (if the connection failed).*

**– or –**

Push and hold down the battery compartment cover ⑤ for at least 10 seconds.

*LED flashes green.*

*Cancels the existing connection and allows a new connection to be established, e.g. different Gateway.*

## Usages:

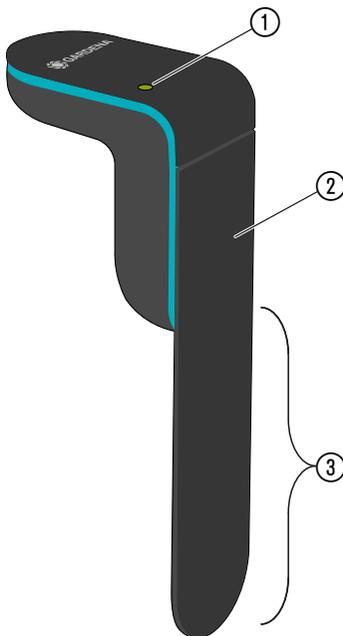
To keep the soil moisture level as constant as possible, irrigation should be carried out with short watering cycles and short watering times. This especially applies to flower boxes on balconies, which have a watering time of < 5 minutes.

The spread of moisture in the soil after watering or rainfall is rather slow. In the worst-case scenario it may happen that irrigation and a rain shower overlap until the required soil moisture is attained.

## 5. MAINTENANCE

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### *To clean the sensor:*



**No caustic/abrasive cleaning agents should be used.**

Whenever the Sensor is relocated, the sensor should be cleaned.

1. Clean sensor with clear water.
2. Clean the measuring area ③ with a damp cloth (do not use solvent).

## 6. STORAGE

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### *To put into storage:*

**The product must be stored away from children.**

1. Remove the batteries to preserve them (see 3. INITIAL OPERATION).
2. Store the Sensor in a dry, enclosed and frost-free place.

### *Disposal:*

*(in accordance with RL2012/19/EC)*



The product must not be disposed of to normal household waste. It must be disposed of in line with local environmental regulations.

### **IMPORTANT!**

Dispose of the product through or via your municipal recycling collection centre.

### *Disposal of the batteries:*

The batteries may only be disposed of when discharged.

### **IMPORTANT!**

Dispose of the batterie through or via your municipal recycling collection centre.

## 7. TROUBLESHOOTING

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In case of malfunctions you will find the FAQ at this address:

[www.gardena.com/smart/faq](http://www.gardena.com/smart/faq)

Problem	Possible Cause	Remedy
<b>LED of the sensor flashes red</b>	Inclusion is failed.	→ Push the battery compartment cover for a short time (see 4. OPERATION "Factory reset").



**NOTE: For any other malfunctions please contact the GARDENA service department. Repairs must only be done by GARDENA service departments or specialist dealers approved by GARDENA.**

## 8. TECHNICAL DATA

<i>smart Sensor</i>	Unit	Value (Art. 19040)
<b>Outdoor operating temperature</b>	°C	- 1 – +50
<b>Storage temperature</b>	°C	-20 – +60
<b>SRD:</b>		
<b>Frequency range</b>	MHz	863 – 870
<b>Maximum power</b>	mW	25
<b>Free field radio range (approx.)</b>	m	100
<b>Soil moisture</b>	%	0 – 100
<b>Batteries required</b>		2 x alkalimanganese (alkaline) batteries type LR6 (AA) (Mignon)
<b>Operating time of the batteries</b>		approx. 6 months with alkaline batteries (min. 2000 mAh)

### **EC Declaration of Conformity:**

Hereby, GARDENA Manufacturing GmbH declares that the radio equipment type (Art. 19040) is in compliance with directive 2014/53/EU.

The full text of the EC declaration of conformity is available at the following internet address:

**<http://www.gardena.com/int/support/safety-regulations>**

## 9. SERVICE/WARRANTY

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### **Service:**

Please contact the address on the back page.

### **Warranty statement:**

In the event of a warranty claim, no charge is levied to you for the services provided.

GARDENA Manufacturing GmbH grants a warranty for all original GARDENA new products for two years from the date of original purchase from the retailer, provided that the devices have been for private use only. This manufacturer's warranty does not apply to products acquired second hand. This warranty includes all significant defects of the product that can be proved to be material or manufacturing faults. This warranty is fulfilled by supplying a fully functional replacement product or by repairing the faulty product sent to us free of charge; we reserve the right to choose between these options. This service is subject to the following provisions:

- The product has been used for its intended purpose as per the recommendations in the operating instructions.
- Neither the purchaser nor a third party has attempted to open or repair the product.
- Only Original GARDENA replacement parts and wear parts have been used for operation.
- Presentation of the receipt.

Normal wear and tear of parts and components (such as blades, blade fixing parts, turbines, light bulbs, V-belts/toothed belts, impellers, air filters, spark plugs), visual changes, wear parts and consumables are excluded from the warranty.

This manufacturer's warranty is limited to replacement and repair of products in accordance with the abovementioned conditions. The manufacturer's warranty does not constitute an entitlement to lodge other claims against us as a manufacturer, such as for damages. This manufacturer's warranty does **not**, of course, affect statutory and contractual warranty claims against the dealer/retailer.

The manufacturer's warranty is governed by the law of the Federal Republic of Germany.

In case of a warranty claim, please return the faulty product, together with a copy of the receipt and a description of the fault, with postage paid to the service address.

### ***Consumables:***

Faults which occur as a result of incorrectly installed or leaking batteries are not covered by the guarantee.

### ***Product liability:***

In accordance with the German Product Liability Act, we hereby expressly declare that we accept no liability for damage incurred from our products where said products have not been properly repaired by a GARDENA approved service partner or where original GARDENA parts or parts authorised by GARDENA were not used.

**Deutschland / Germany**  
**GARDENA**  
Manufacturing GmbH  
Central Service  
Hans-Lorenser-Straße 40  
D-89079 Ulm  
Produktfragen:  
(+49) 731 490-123  
Reparaturen:  
(+49) 731 490-290  
service@gardena.com  
http://www.gardena.com

**Albania**  
KRAFT SHPK  
Autostrada Tirane-Durres  
Km 7  
1051 Tirane

**Argentina**  
ROBERTO C. RUMBO S.R.L.  
Predio Norlog  
Lote 7  
Benavidez, ZC:1621  
Buenos Aires  
ventas@rumbosrl.com.ar

**Australia**  
Husqvarna Australia Pty. Ltd.  
Locked Bag 5  
Central Coast BC  
NSW 2252  
Phone: (+61) (0) 2 4352 7400  
customer.service@  
husqvarna.com.au

**Austria / Österreich**  
Husqvarna Austria GmbH  
Industriezeile 36  
4010 Linz  
Tel.: (+43) 732 77 01 01-485  
service.gardena@  
husqvarnagroup.com

**Azerbaijan**  
Firm Progress  
a. Aliyev Str. 26A  
1052 Baku

**Belarus**  
Private Enterprise  
"Master Garden"  
Minsk  
Sharangovich str., 7a  
Phone: (+375) 17 257-00-33  
Mob.: (+375) 29 676-16-09  
mg@mastergarden.by

**Belgium**  
Husqvarna Belgium nv  
Gardena Division  
Leuvensesteenweg 542  
Planet II E  
1930 Zaventem  
België

**Bosnia / Herzegovina**  
SILK TRADE d.o.o.  
Industrijska zona Bukva bb  
74260 Tešanj

**Brazil**  
Husqvarna do Brasil Ltda  
Av. Francisco Matarazzo,  
1400 - 19º andar  
São Paulo - SP  
CEP: 05001-903  
Tel: 0800-112252  
marketing.br.husqvarna@  
husqvarna.com.br

**Bulgaria**  
AGROLAND България АД  
бул. 8 Октомври, №13  
Офис 5  
1700 Студентски град  
София  
Тел.: (+359) 24666910  
info@agroland.eu

**Canada / USA**  
GARDENA Canada Ltd.  
100 Summerlea Road  
Brampton, Ontario L6T 4X3  
Phone: (+1) 905 792 9330  
info@gardenacanada.com

**Chile**  
REPRESENTACIONES  
JCE S.A.  
Av. Del Valle Norte 857,  
Pliso 4  
Santiago RM  
Phone: (+56) 2 24142560  
contacto@jce.cl

**China**  
Husqvarna (Shanghai)  
Management Co., Ltd.  
富世华 (上海) 管理有限公司  
3F, Benq Square B,  
No207, Song Hong Rd.,  
Chang Ning District,  
Shanghai  
PRC. 200335  
上海市长宁区沁虹路207号明基广场B座3楼, 邮编: 200335

**Colombia**  
Husqvarna Colombia S.A.  
Calle 18 No. 68 D-31, zona  
Industrial de Montevideo  
Bogotá, Cundinamarca  
Tel. 571 2922700 ext. 105  
jairo.salazar@  
husqvarna.com.co

**Costa Rica**  
Compañia Exim  
Euroiberoamericana S.A.  
Los Colegios, Moravia,  
200 metros al Sur del Colegio  
Saint Francis - San José  
Phone: (+506) 297 8883  
exim\_euro@racsa.co.cr

**Croatia**  
Husqvarna Austria GmbH  
Industriezeile 36  
4010 Linz  
Tel.: (+43) 732 77 01 01-485  
service.gardena@  
husqvarnagroup.com

**Cyprus**  
Med Marketing  
17 Digeni Akritia Ave  
P.O. Box 27017  
1641 Nicosia

**Czech Republic**  
Husqvarna Česko s.r.o.  
Türkova 2319/5b  
149 00 Praha 4 - Chodov  
Bezpłatna infolinia:  
800 100 425  
servis@cz.husqvarna.com

**Denmark**  
GARDENA DANMARK  
Lejrvvej 19, st.  
3500 Værløse  
Tlf.: (+45) 70264770  
husqvarna@husqvarna.dk  
www.gardena.com/dk

**Dominican Republic**  
BOSQUESA, S.R.L.  
Carretera Santiago Licey  
Km. 5 ½  
Esquina Copal II.  
Santiago  
Dominican Republic  
Phone: (+809) 736-0333  
josebosquesa@claro.net.do

**Ecuador**  
Husqvarna Ecuador S.A.  
Arupos E1-181 y 10 de  
Agosto Quito, Pichincha  
Tel. (+593) 22800739  
francisco.jacome@  
husqvarna.com.ec

**Estonia**  
Husqvarna Eesti OÜ  
Valdeku 132  
EE-11216 Tallinn  
info@gardena.ee

**Finland**  
Oy Husqvarna Ab  
Gardena Division  
Lautatarhankatu 8 / B / PL 3  
00581 HELSINKI  
www.gardena.fi

**France**  
Husqvarna France  
9/11 Allée des pierres mayettes  
92635 Gennevilliers Cedex  
France  
http://www.gardena.com/fr  
N° AZUR: 0 810 00 78 23  
(Prix d'un appel local)

**Georgia**  
Transporter LLC  
113b Beliazhvili street  
0159 Tbilisi, Georgia

**Great Britain**  
Husqvarna UK Ltd  
Preston Road  
Aycliffe Industrial Park  
Newton Aycliffe  
County Durham  
DL5 6UP  
info.gardena@  
husqvarna.co.uk

**Greece**  
Π. ΠΑΠΑΔΟΠΟΥΛΟΣ ΑΕΒΕ  
Λεωφ. Αθηνών 92  
Αθήνα  
Τ.Κ.104 42  
Ελλάδα  
Τηλ. (+30) 210 5193 100  
info@papadopoulos.com.gr

**Hungary**  
Husqvarna Magyarország Kft.  
Ezred u. 1-3  
1044 Budapest  
Telefon: (+36) 1 251-4161  
vevooszogalat.husqvarna@  
husqvarna.hu

**Iceland**  
BYKO ehf.  
Bildshófa 20  
110 Reykjavik

**Ireland**  
Husqvarna UK Ltd  
Preston Road  
Aycliffe Industrial Park  
Newton Aycliffe  
County Durham  
DL5 6UP  
info.gardena@  
husqvarna.co.uk

**Italy**  
Husqvarna Italia S.p.A.  
Via Santa Vecchia 15  
23868 VALMADRERA (LC)  
Phone: (+39) 0341.203.111  
assistenza.italia@  
it.husqvarna.com

**Japan**  
Husqvarna Zenohak Co., Ltd.  
1-9 Minamidai  
Kawagoe  
350-1165 Saitama  
gardena-jp@  
husqvarnagroup.com

**Kazakhstan**  
LAMED Ltd.  
155/1, Tazhibayevoy Str.  
050060 Almaty  
IP Schmidt  
Abayavenue 3B  
110 005 Kostanay

**Korea**  
Kyung Jin Trading CO., LTD.  
107-4, SunDuk Bld.,  
YangJae-dong,  
Seocho-gu,  
Seoul, (zipcode: 137-891)  
Phone: (+82) (0)2 574-6300

**Latvia**  
Husqvarna Latvija SIA  
Ulbrokas 19A  
LV-1021 Rīga  
info@gardena.lv

**Lithuania**  
UAB Husqvarna Lietuva  
Atleities pl. 77C  
LT-52104 Kaunas  
info@gardena.lt

**Luxembourg**  
Magasins Jules Neuberg  
9, rue Jacques Stas  
Luxembourg-Gasperich 2549  
Case Postale No. 12  
Luxembourg 2010  
Phone: (+352) 40 14 01  
api@neuberg.lu

**Mexico**  
AFOSA  
Av. Lopez Mateos Sur # 5019  
Col. La Calima 45070  
Zapopan, Jalisco  
Mexico  
Phone: (+52) 33 3818-3434  
icornejo@afosa.com.mx

**Moldova**  
Husqvarna Nederland B.V.  
GARDENA Division  
Postbus 50131  
1305 AC ALMERE  
Phone: (+31) 36 521 00 10  
info@gardena.nl

**Neth. Antilles**  
Jonka Enterprises N.V.  
Sta. Rosa Weg 196  
P.O. Box 8200  
Curaçao  
Phone: (+599) 9 767 66 55  
pgm@jonka.com

**New Zealand**  
Husqvarna New Zealand Ltd.  
PO Box 76-437  
Manukau City 2241  
Phone: (+64) (0) 9 9202410  
support.nz@husqvarna.co.nz

**Norway**  
Husqvarna Norge AS  
Gardena Division  
Troksenveien 36  
1708 Sarpsborg  
info@gardena.no

**Peru**  
Husqvarna Perú S.A.  
Jr. Ramon Cárcamo 710  
Lima 1  
Tel: (+51) 1 3320 400 ext. 416  
juan.remuzgo@  
husqvarna.com

**Poland**  
Husqvarna  
Poland Spółka z o.o.  
ul. Wysockiego 15 b  
03-371 Warszawa  
Phone: (+48) 22 330 96 00  
gardena@husqvarna.com.pl

**Portugal**  
Husqvarna Portugal, SA  
Lagoa - Albaraque  
2635 - 595 Rio de Moura  
Tel.: (+351) 21 922 85 30  
Fax : (+351) 21 922 85 36  
info@gardena.pt

**Romania**  
Madex International Srl  
Soseaua Odaii 117-123,  
RO 013603 București, S1  
Phone: (+40) 21 322 76.03  
madex@ines.ro

**Russia / Россия**  
ООО „Хускварна“  
141400, Московская обл.,  
г. Химки,  
улица Ленинградская,  
владение 39, стр.6  
Бизнес Центр  
„Химки Бизнес Парк“,  
помещение 0B02\_04  
http://www.gardena.ru

**Serbia**  
Domet d.o.o.  
Autoput za Novi Sad bb  
11273 Belgrade  
Phone: (+381) 1 18 48 88 12  
miroslav.jejina@domet.rs

**Singapore**  
Hy-Ray PRIVATE LIMITED  
40 Jalan Pemimpin  
#02-08 Tat Ann Building  
Singapore 577185  
Phone: (+65) 6253 2277  
shiyang@hyray.com.sg

**Slovak Republic**  
Husqvarna Česko s.r.o.  
Türkova 2319/5b  
149 00 Praha 4 - Chodov  
Bezpłatna infolinia: 800 154 044  
servis@sk.husqvarna.com

**Slovenia**  
Husqvarna Austria GmbH  
Industriezeile 36  
4010 Linz  
Tel.: (+43) 732 77 01 01-485  
service.gardena@  
husqvarnagroup.com

**South Africa**  
Husqvarna South Africa (Pty) Ltd  
Postnet Suite 250  
Private Bag X6  
Cascades, 3202, South Africa  
Phone: (+27) 33 846 9700  
info@gardena.co.za

**Spain**  
Husqvarna España S.A.  
Calle de Rivas nº 10  
28052 Madrid  
Phone: (+34) 91 708 05 00  
atencioncliente@gardena.es

**Suriname**  
Deto Handelmaatschappij N.V.  
Kernkampweg 72-74  
P.O.Box: 12782  
Paramaribo - Suriname  
South America  
Phone: (+597) 438050  
www.deto.rs

**Sweden**  
Husqvarna AB/  
GARDENA Sverige  
Drottninggatan 2  
561 82 Huskvarna Sverige

**Switzerland / Schweiz**  
Husqvarna Schweiz AG  
Consumer Products  
Industriestrasse 10  
5506 Mägenwil  
Phone: (+41) (0) 62 887 37 90  
info@gardena.ch

**Turkey**  
Dost Bahçe Diş Ticaret  
Müesseslik A. Şi  
Yunus Mah. Adı Sok. No:3  
Ic Kapi No: 1 Kartal  
34873 Istanbul  
Phone: (+90) 216 38 93 939  
info@dostbahce.com.tr

**Ukraine / Україна**  
ТОВ «Хускварна Україна»  
вул. Васильківська, 34,  
офіс 204-г  
03022, м. Київ  
Тел. (+38) 0 800 504 804  
info@gardena.ua

**Uruguay**  
FELI SA  
Entre Rios 1083 CP 11800  
Montevideo - Uruguay  
Tel: (+598) 22 03 18 44  
info@felisa.com.uy

**Venezuela**  
Corporación Casa y Jardín C.A.  
Av. Caroni, Edif. Trezmen, PB.  
Colas de Bello Monte,  
1050 Caracas.  
Tlf: (+58) 212 992 33 22  
info@casayjardin.net.ve

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Manufacturing GmbH  
D-89079 Ulm  
http://www.gardena.com