

A 1020 Sensor Art. 1835

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**GB Operating Instructions**

Automatic Irrigation Set

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**F Mode d'emploi**

Kit d'arrosage automatique

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**NL Gebruiksaanwijzing**

Automatische besproeiingsset

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**PL Instrukcja obsługi**

Sterownik nawadniania

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**GR Οδηγίες χρήσεως**

Σετ προγραμματιστή ποτίσματος με υγρασιόμετρο

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**RUS Инструкция по эксплуатации**

Комплект для автоматического управления поливом

# GARDENA Automatic Irrigation Set A 1020 Sensor

Welcome to the Garden of GARDENA...



Please read these operating instructions carefully and observe the information they contain. Use these operating instructions to familiarise yourself with the GARDENA Automatic Irrigation Set, its proper use and the notes on safety.



For safety reasons, children under the age of 16 as people, who are not familiar with the operating instructions should not use the Automatic Irrigation Set.

→ Please keep these instructions in a safe place.

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## 1. Where to use Your GARDENA Automatic Irrigation Set

### Intended use:

The GARDENA Automatic Irrigation Set includes a Water Timer and a Soil Moisture Sensor. It is designed to be used solely outdoors in domestic and private gardens and in greenhouses to control sprinklers and watering systems taking into account the soil moisture level.

### Please note:



It is not permitted to use the Automatic Irrigation Set for industrial or commercial applications and in conjunction with chemicals, foodstuffs, highly combustible or explosive substances.

## 2. Safety instructions

### Batteries:

For reasons of operational reliability the Water Timer should only be operated with one 9 V alkaline battery type IEC 6LR61 and the Soil Moisture Sensor with two 1.5 V (alkaline) round cells type IEC LR 14.

To prevent failure of the Water Timer / Soil Moisture 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 a year in total.

## **Setting up:**

### **Warning!**

The Automatic Irrigation Set must not be used indoors.

→ Only use the Automatic Irrigation Set outdoors.

The Water Timer must only be set up vertically with the sleeve nut to the top to prevent water penetrating into the battery compartment.

The minimum water output to ensure that the Water Timer functions correctly is 20 l/h. For example, at least 10 x 2-litre Drip Heads are required to control the Micro-Drip-System.

The max. temperature for the water flow is 40 °C.

→ Only use clear fresh water.

The minimum operating pressure is 0.5 bar, the maximum operating pressure is 12 bar.

Avoid tensile strain.

→ Do not pull the hose connected to the Water Timer.

## **Programming**

→ Programme the Water Timer with the tap turned off. In this way you can avoid getting wet when trying out the manual On/Off function (man. On/Off). You can remove the control unit from the housing to program the Water Computer.

For entering the watering data, you can remove the control panel from the casing.

## **Soil Moisture Sensor:**

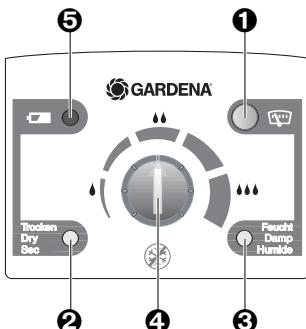
The Soil Moisture Sensor is equipped with a safety switch. If the sensor cable is damaged or the batteries flat, the Soil Moisture Sensor is not recognised by the Water Timer any more. If watering is controlled by the Soil Moisture Sensor (⌘, ⚡, ⚡) an emergency mode is activated: watering every 24 hours with the set watering duration, max. 30 minutes. If watering is time-controlled the programme is run without the sensor.

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.

## **3. Function**

The Soil Moisture Sensor measures the soil moisture at the root level of the plants. With the GARDENA Soil Moisture Sensor the soil moisture level is taken into consideration for watering. The Soil Moisture Sensor measures the soil moisture automatically approximately every 10 minutes and sends the measured results to the Water Timer.

### **Control panel of the Soil Moisture Sensor:**



#### **① Indicator button:**

Activates display of moisture level last measured.

#### **② "Dry" LED:**

Indicates that the Soil Moisture Sensor is measuring dry in relation to the switching controller ④.

#### **③ "Damp" LED:**

Indicates that the Soil Moisture Sensor is measuring damp in relation to the switching controller ④.

#### **④ Switching controller:**

Sets the soil moisture level at which watering is to take place.

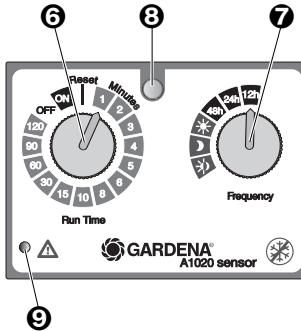
#### **⑤ Battery LED:**

If the battery LED flashes, the batteries have to be replaced.

If the batteries are flat and are not replaced, the connected Water Timer will function with the watering programme selected.

→ Replace batteries (see **7. Maintenance** “Replace batteries of Soil Moisture Sensor”).

#### **Control panel of the Water Timer:**



With the GARDENA Automatic Irrigation Set you can take soil moisture into account for controlled watering. The watering time and the watering duration can be set individually.

- ⑥ **Run Time button:** Used to set the watering duration.
- ⑦ **Frequency button:** Used to set the watering cycle.
- ⑧ **Light Sensor:** day / night recognition (dependent on the lighting conditions).
- ⑨ **Error LED:** Indicates that the battery is almost empty or that the Soil Moisture Sensor is not connected or not properly connected.

If the battery is almost empty the programme is not activated any more. The valve cannot be opened manually any more.

→ Replace battery (see **7. Maintenance** “Replace battery of the Water Timer”).

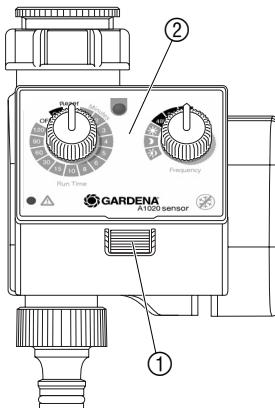
## 4. Initial Operation

#### **Water Timer:**

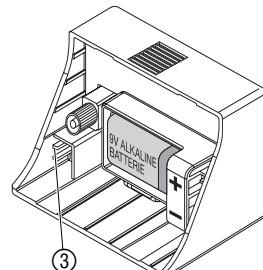
##### **Insert battery into Water Timer:**

→ For inserting the battery, please see **7. Maintenance** “Replace battery of the Water Timer”).

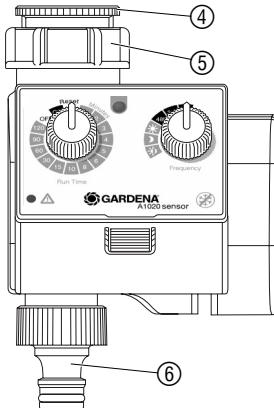
##### **Connect adapter cable of the Soil Moisture Sensor:**



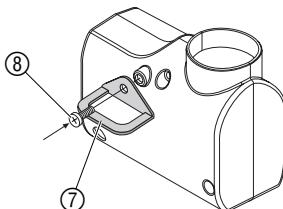
1. Press unlock button ① and remove control panel ② from the Water Timer.
2. Insert short adapter cable in sensor connection ③.
3. Plug control panel ② onto the Water Timer again.



## **Connecting your Water Timer to tap:**



## **Fit anti-theft device (optional):**



The Water Timer is fitted with a sleeve nut ⑤ for taps with a 33.3 mm (G1") thread. The adapter supplied ④ allows the Water Timer to be connected to taps with a 26.5 mm (G3/4") thread.

1. Only for taps with a 26.5 mm (G3/4") thread: Screw the adapter ④ onto the tap by hand (do not use pliers).
2. Screw the sleeve nut ⑤ of the Water Timer onto the thread of the tap by hand (do not use pliers).
3. Screw the threaded tap connector ⑥ onto the Water Timer.

## **Insert batteries into Soil Moisture Sensor:**

## **Select correct location for Soil Moisture Sensor:**

To secure your Water Timer against theft, you can obtain the **GARDENA anti-theft device Art. 1815-00.791.00** from GARDENA Service.

→ Screw clamp ⑦ with screw ⑧ firmly to the back of the Water Computer.

Use clamp e.g. for fixing a chain. It is no longer possible to remove the screw after it has been screwed in.

## **Soil Moisture Sensor:**

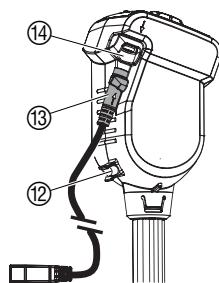
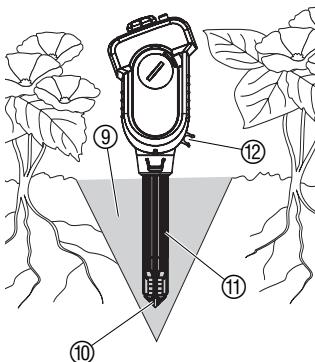
→ For inserting the batteries, please see **7. Maintenance "Replace batteries of Soil Moisture Sensor"**.

### **Correct location:**

The Soil Moisture 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.).

### **Incorrect location:**

The Soil Moisture Sensor should not be covered by neighbouring plants. Areas of shade should be avoided. To rule out erroneous reaction results caused by waterlogging, the Soil Moisture Sensor should not be positioned in dips in the ground.

**"Plant" Soil Moisture Sensor:****WARNING !**

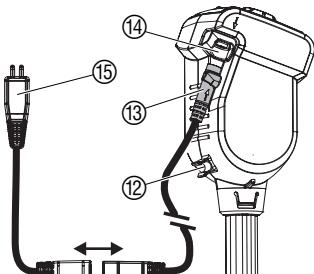
The tip of the sensor will only measure the soil moisture correctly if the sensor tip is in full contact with the ground on all sides! No air should be trapped at the sensor tip in the ground.

1. Dig a funnel-shaped hole in the ground (9) at least 12 cm deep.
2. Break up the soil (9) removed and take out any stones.
3. If the soil is dry, moisten.
4. Replace the damp broken-up soil (9) in the funnel-shaped hole without packing tight.
5. Immerse entire sensor tip (10) in water (felt must be wet).
6. Insert sensor cable (long) (13) in the sensor socket (14) of the Soil Moisture Sensor (on purchase this is already inserted).
7. Insert the Soil Moisture Sensor to the upper edge of the sensor (11) in the broken-up soil (9).  
*Here the sensor tip (10) must be in full contact with the damp soil on all sides.*
8. Press down the soil (9) around the sensor (11) lightly.  
*The Soil Moisture Sensor should not stand loose in the ground.*
9. Water the area around the Soil Moisture Sensor with approx. 1 litre of water.  
*Depending on the ground it may take several hours until the Soil Moisture Sensor measures the actual soil moisture.*

**Connect GARDENA Micro-Drip-System :**

To ensure that the quantity of water delivered is registered by the sensor tip when using the GARDENA Micro-Drip-System, a drip head must be installed directly above the sensor.

- Fit a Supply Pipe 4.6 mm (3/16") with drip head to the drip head holder (12) of the Soil Moisture Sensor.

**Connect adapter cable:**

1. Lay the sensor cable (13) in / on the ground so that it cannot be damaged or trip people up. The cable should be laid in the ground in a bed of sand to prevent any damage being caused by stones.
2. Fit adapter cable (short) (15) to sensor cable (13) (on purchase this is already fitted).

If the sensor cable is not long enough, it can be extended with the GARDENA Extension Cable Art. 1186 (up to 105 m).

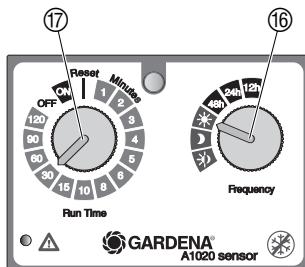
## 5. Operation

### Set watering programme:

#### Water Timer:

To create the watering programme, the control panel can be removed from the casing by pressing the unlock button so that mobile programming is possible (see **4. Initial operation** "Connect adapter cable of the Soil Moisture Sensor").

**The watering programme is run only if the Soil Moisture Sensor reports "dry" to the Water Timer and the control panel has been properly plugged in. If the Soil Moisture Sensor reports "damp" while the programme is running, watering is stopped.**



#### Watering controlled by Soil Moisture Sensor:

1. Turn Frequency button ⑯ to the desired watering cycle (e.g. ☼ day).

|  |  |
|--|--|
|  | Watering by day when the Soil Moisture Sensor reports "dry".   |
|  | Watering by night when the Soil Moisture Sensor reports "dry". |
|  | Watering whenever the Soil Moisture Sensor reports "dry".      |

2. Turn Run Time button ⑰ to the desired watering duration (e.g. 30 minutes). *Watering starts within the set watering cycle.*

If watering is controlled by the Soil Moisture Sensor a watering break of 2 hours is activated every time water has been delivered (so, the soil moisture level can be balanced).

#### Example:

Watering cycle = ☼ (day),  
Watering duration = 30 minutes.

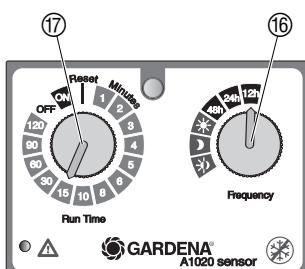
Watering is activated when the Soil Moisture Sensor reports "dry" during the day, and stops depending on the soil moisture level, but for no longer than the the set duration (in this example 30 minutes).

#### Time-controlled watering:

1. Turn Frequency button ⑯ to the desired watering cycle (e.g. 12 hours).

|            |                         |
|------------|-------------------------|
| <b>12h</b> | watering every 12 hours |
| <b>24h</b> | watering every day      |
| <b>48h</b> | watering every 2 days   |

2. Turn Run Time button ⑰ to Reset to enter the watering start time (time of programming).
3. Turn Run Time button ⑰ to the desired watering duration (e.g. 15 minutes).



Watering is activated depending on the time of programming.

#### Example:

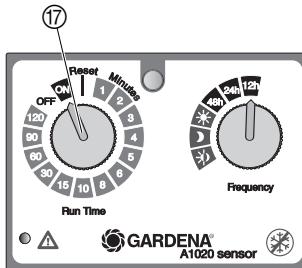
Watering cycle = 12 hours,

Watering duration = 15 minutes.

Watering is activated every 12 hours (starting from the current time) if the Soil Moisture Sensor reports "dry" and stops depending on the soil moisture, but for no longer than the set duration (in this example 15 minutes).

The Run Time button ⑯ can be used also to change the watering duration of a running programme. If the new watering duration is shorter than the watering duration already passed, watering is stopped in the next minute of run time.

#### Manual watering:



The valve can be opened or closed manually at any time. Even a programme-controlled open valve can be closed prematurely.

#### Open valve manually:

→ Turn Run Time button ⑯ to ON.

*The valve opens and closes automatically after 30 minutes.*

#### Close valve manually:

→ Turn Run Time button ⑯ to OFF.

*The valve closes.*

#### Reset:

If the Run-Time button ⑯ is turned to Reset the internal time control of the Water Timer restarts and the 2 hour watering break is reset.

#### Soil Moisture Sensor:

The water requirement of plants depends on many factors, e.g. type of plant, soil, sunshine, wind. To find the suitable switching point of the Soil Moisture Sensor, it has to be observed during irrigation over a period of approx. 1 – 2 weeks and re-adjusted if necessary. If the soil moisture has exceeded the switching point selected, the watering programme of the Water Timer is terminated prematurely or an outstanding irrigation process blocked.

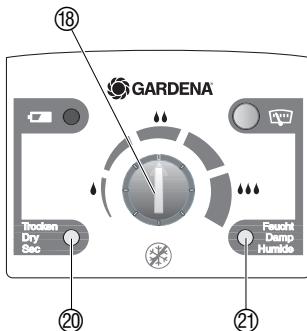
#### Select presetting of switching controller:

On delivery, the switching controller is set to the **centre position**, which is suitable for normal non-forest soils (**loamy humus**).

For **sandy soils** the switching controller ⑰ should be set slightly **to the right** (damper).

For **potting soil** the switching controller ⑰ should be set slightly **to the left** (drier).

## **Set switching point of Soil Moisture Sensor:**



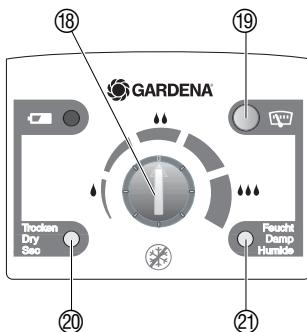
### **Increase soil moisture level:**

- If the soil seems too dry for an application (type of soil or plant species), turn the switching controller ⑯ to the right towards "Damp" (e.g. with a coin).

### **Reduce soil moisture level:**

- If the soil seems too damp for an application (type of soil or plant species), turn the switching controller ⑯ to the left towards "Dry" (e.g. with a coin).

## **Display soil moisture:**



The soil moisture can be displayed at any time with the Soil Moisture Sensor. When the Soil Moisture Sensor shows "Damp" ⑯, watering is not carried out.

- Press indicator button ⑯.

*The soil moisture value last measured is indicated for 1 minute with the relevant LED ("Dry" ⑯ or "Damp" ⑯).*

During the minute in which the measured result is displayed, the switching controller can be used to find the relevant switching point by turning the switching controller until the display changes from "Dry" ⑯ to "Damp" ⑯ or vice versa. If the display does not change, the ground is either very dry or very damp.

## **Usage:**

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 min.

## **6. Putting into Storage**

### **Storage / Overwintering:**



The storage location must not be accessible to children.

1. Remove batteries from the Soil Moisture Sensor and Water Timer.
2. Store Water Timer and Soil Moisture Sensor in a dry place protected from frost.

### **Disposal:**

(in accordance with RL 2002/96/EC)



### **Important!**

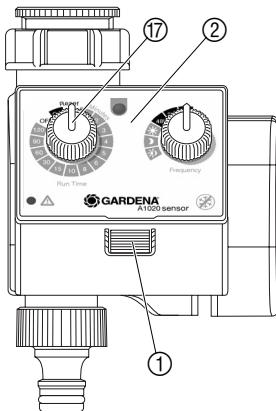
Return spent batteries to one of the sales outlets or dispose of batteries via your municipal recycling collection centre. Only dispose of battery once **discharged**.

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

- Important: Make sure that the unit is disposed of via your municipal recycling collection centre.

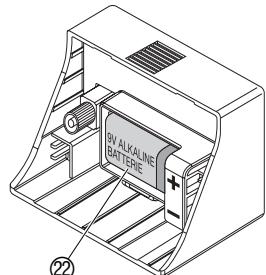
## 7. Maintenance

### Replace battery of the Water Timer:



The Water Timer may be operated only with a 9 V alkaline battery type IEC 6LR61.

1. Press unlock button **(1)** and remove control panel **(2)** from the Water Timer.
2. Insert battery **(2)** in the battery compartment.  
**When doing so ensure correct polarity (+/-).**
3. Plug control panel **(2)** onto the Water Timer again.

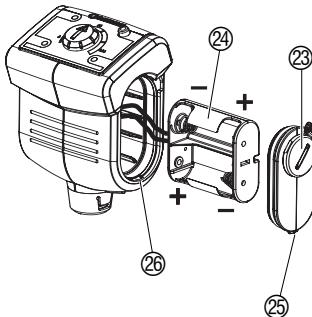


#### Test new battery:

1. Open the tap.
2. Turn Run-Time button **(17)** to **ON**.  
*Valve opens.*
3. Turn Run-Time button **(17)** to **OFF**.  
*Valve closes.*

To prevent damage caused by water flowing out, ensure proper draining at the Water Timer (connect hose, place a bucket below, etc.).

### Replace batteries of the Soil Moisture Sensor:



1. Unlock battery cover **(23)** with a coin (or large screwdriver) by turning clockwise.
2. Remove battery cover **(23)** (using a screwdriver if necessary).
3. Remove battery holder **(24)** and insert 2 batteries (round cells 1.5 V alkaline type IEC LR14). **When doing so, ensure correct polarity (+/-).**
4. Insert battery holder **(24)** in Soil Moisture Sensor. When doing so, make sure that cables are not trapped.
5. Insert catch lug **(25)** of battery cover **(23)** in housing slot **(26)** and press down battery cover **(23)**. When doing so, make sure that O-ring is positioned correctly.
6. Relock battery cover **(23)** with a coin (or large screwdriver) by turning anticlockwise.

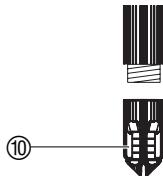
### Clean control panels:

The control panels should be cleaned when soiled (particularly the Light Sensor).

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

→ Clean control panel with a damp cloth (do not use solvent).

#### **Clean / replace sensor tip:**



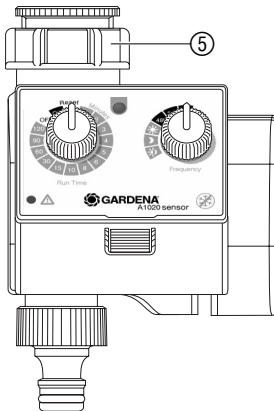
Whenever the Soil Moisture Sensor is relocated, the sensor tip should be cleaned / replaced. The felt on the tip should not come into contact with grease.

→ Clean sensor tip ⑩ with clear water.

If the felt becomes damaged, the sensor tip can be re-ordered from GARDENA Service.

→ Unscrew sensor tip ⑩ and screw on new tip.

#### **Clean dirt filter:**



The dirt filter should be controlled regularly and cleaned if necessary.

1. Unscrew sleeve nut ⑤ of the Water Timer manually from the thread of the tap (do not use pliers).
2. Remove dirt filter of the sleeve nut and clean it.
3. Screw sleeve nut ⑤ of the Water Timer onto thread of the tap again manually (do not use pliers).

## **8. Troubleshooting**

| Fault   | Possible cause  | Remedy   |
|---|---|--|
| <b>Manual watering not possible</b>                     | Water tap is closed.<br><br>Battery of the Water Timer spent / inserted incorrectly / wrong battery used.   | → Open tap.<br><br>→ Replace battery of the Water Timer / insert correctly / use alkaline battery.   |
| <b>Watering is not switched on although soil is dry</b> | Soil Moisture Sensor is in a dip in the ground.<br><br>Switching controller too far to the left on "Dry".<br><br>Battery of the Water Timer spent / inserted incorrectly / wrong battery used.<br><br>Two-hour pause in irrigation after irrigation controlled by Soil Moisture Sensor. | → Reposition Soil Moisture Sensor at correct location (see 4. Initial Operation " <i>Select correct location for Soil Moisture Sensor</i> ").<br><br>→ Turn switching controller to the right accordingly.<br><br>→ Replace battery of the Water Timer / insert correctly / use alkaline battery.<br><br>→ Increase watering time so that watering is only required every 2 hrs. |

| Fault   | Possible cause   | Remedy   |
|---|--|--|
| <b>Watering is not switched on although soil is dry</b> | Valve has been closed manually.  | → Turn Run Time button to a watering duration.   |
|   | The control panel has not been inserted correctly.                                     | → Insert control panel correctly.  |
| <b>Watering is switched on although soil is damp</b>    | Soil Moisture Sensor not positioned in watering area.                                  | → Position Soil Moisture Sensor in watering area.  |
|   | Switching controller too far to the right on "Damp".                                   | → Turn switching controller to the left accordingly.                                     |
|   | Defective or loose sensor cable.   | → Check sensor cable and connections.  |
|   | Air trapped at sensor tip.   | → Remove trapped air (see 4. Initial Operation " <i>Plant Soil Moisture Sensor</i> ").   |
| <b>Automatic Irrigation Set does not close</b>          | Minimum flow rate below below 20 l/h.  | → Connect more drip heads.   |
| <b>Battery display of Soil Moisture Sensor flashing</b> | Batteries of Soil Moisture Sensor spent / inserted incorrectly / wrong batteries used. | → Replace batteries of Soil Moisture Sensor / insert correctly / use alkaline batteries. |
|   | Soil Moisture Sensor defective.  | → Contact GARDENA Service.   |
| <b>Error indicator of Water Timer flashing</b>          | Batteries of Soil Moisture Sensor spent / inserted incorrectly / wrong battery used.   | → Replace batteries of Soil - Moisture Sensor / insert correctly / use alkaline battery. |
|   | Batteries of Soil Moisture Sensor are flat.  | → Replace batteries of Soil Moisture Sensor.   |
|   | Cable of Soil Moisture Sensor defective.   | → Replace cable of Soil Moisture Sensor.   |
|   | Defective or loose sensor cable.   | → Check sensor cable and connections.  |



In the event of other faults please contact GARDENA Service.

Repairs should only be carried out by GARDENA service centres or dealers authorised by GARDENA.

## 9. Accessories

|  |   |                                       |
|--|---|---------------------------------------|
| <b>GARDENA Extension Cable (length: 10 metres)</b> | Used to extend sensor cable to max. 105 metres. | <b>Art. 1186</b>                      |
| <b>GARDENA sensor tip with felt</b>                | For replacement of damaged sensor tip.          | <b>Obtainable via GARDENA Service</b> |

## 10. Technical Data

### A 1020 Sensor (Art. 1835)

#### **Water Timer**

**Min. / max. operating pressure:** 0.5 bar / 12 bar

**Minimum flow rate:** 20 l/h

**Max. liquid temperature:** 40 °C

**Temperature:** 5 – 60 °C

**Programme-controlled watering durations:** 1, 2, 3, 4, 5, 6, 8, 10, 15, 30, 60, 90, 120 minutes

**Brightness-controlled watering cycles:** by day, by night, permanently

**Programme-controlled watering cycles:** every 12 hours, every 24 hours, every 48 hours

**Battery:** 1 x Typ IEC 6LR61 (9 V alkaline 500 mAh)

**Operating life of battery:** approx. 1 year (with alkaline battery)

#### **Soil Moisture Sensor**

**Sensor cable:** 5 m

**Adapter cable:** 20 cm

**Temperature range:** 5 – 60 °C

**Batteries:** 2 x round cells type IEC LR14 (1.5 V alkaline 7.8 Ah)

**Operating life of batteries:** approx. 1 year (with alkaline battery)

## 11. Service / Warranty

#### **Warranty**

GARDENA guarantees this product for 2 years (from date of purchase). This guarantee covers all serious defects of the unit that can be proved to be material or manufacturing faults. Under warranty we will either replace the unit or repair it free of charge if the following conditions apply:

- The unit must have been handled properly and in keeping with the requirements of the operating instructions.
- Neither the purchaser or a non-authorised third party have attempted to repair the unit.

As a wear part the sensor tip with felt is not covered by the guarantee.

This manufacturer's guarantee does not affect the user's existing warranty claims against the dealer/seller.

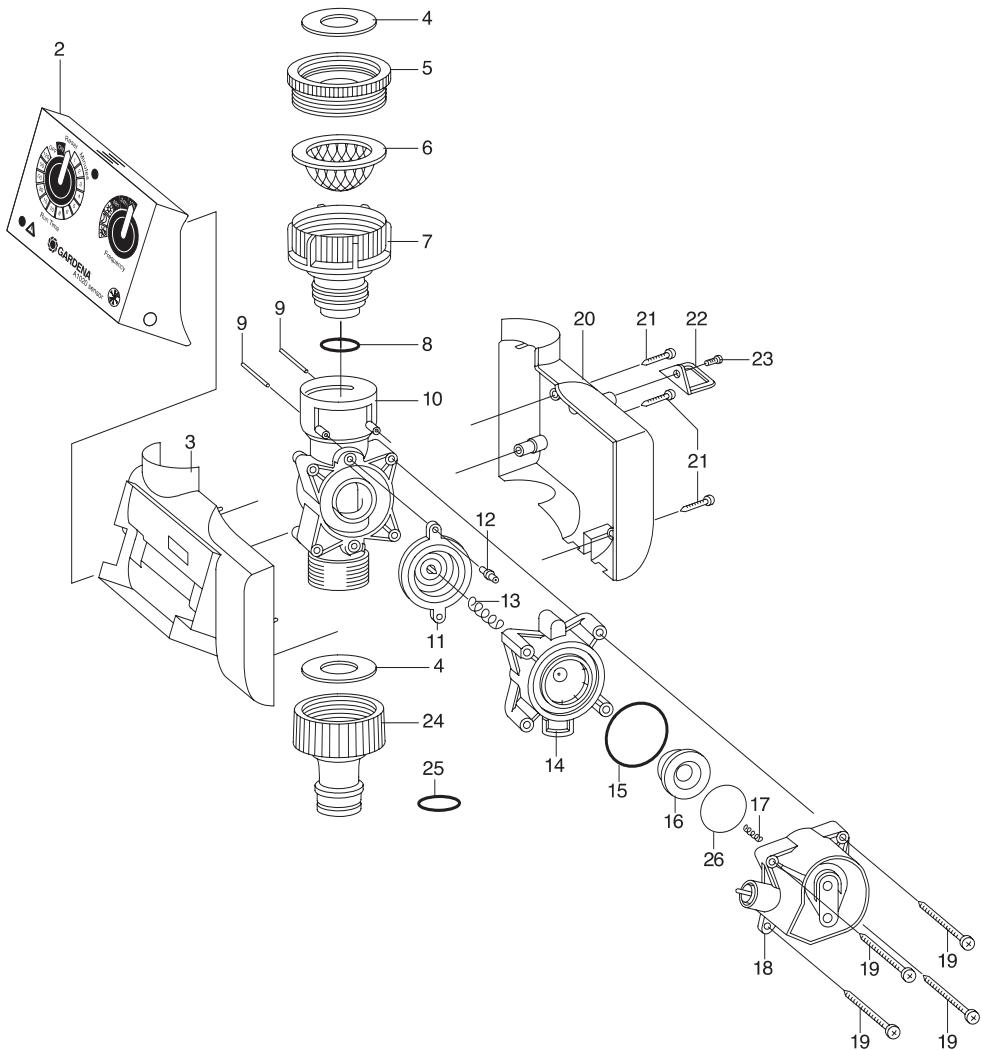
If a fault occurs with your Automatic Irrigation Set, please return the faulty unit together with a copy of the receipt and a description of the fault, with postage paid to one of the GARDENA Service Centres listed on the back of these operating instructions.

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| <b>GB</b> <i>Product Liability</i>             | We expressly point out that, in accordance with the product liability law, we are not liable for any damage caused by our units if it is due to improper repair or if parts exchanged are not original GARDENA parts or parts approved by us, and, if the repairs were not carried out by a GARDENA Service Centre or an authorised specialist. The same applies to spare parts and accessories.  |
| <b>F</b> <i>Responsabilité</i>                 | Nous vous signalons expressément que GARDENA n'est pas responsable des dommages causés par ses appareils, dans la mesure où ces dommages seraient causés suite à une réparation non conforme, dans la mesure où, lors d'un échange de pièces, les pièces d'origine GARDENA n'auraient pas été utilisées, ou si la réparation n'a pas été effectuée par le Service Après-Vente GARDENA ou l'un des Centres SAV agréés GARDENA. Ceci est également valable pour tout ajout de pièces et d'accessoires autres que ceux préconisés par GARDENA. |
| <b>NL</b> <i>Productaansprakelijkheid</i>      | Wij wijzen er nadrukkelijk op, dat wij op grond van de wet aansprakelijkheid voor producten niet aansprakelijk zijn voor schade ontstaan door onze apparaten, indien deze door onvakkundige reparatie veroorzaakt zijn, of er bij het uitwisselen van onderdelen geen gebruik gemaakt werd van onze originele GARDENA onderdelen of door ons vrijegeven onderdelen en de reparatie niet door de GARDENA technische dienst of de bevoegde vakman uitgevoerd werd. Ditzelfde geldt voor extra-onderdelen en accessoires.                      |
| <b>PL</b> <i>Odpowiedzialność za produkt</i>   | Zwracam Państwa uwagę na fakt, iż nie odpowiadamy za szkody wyrządzane przez nasze urządzenia, jeżeli powstały one na skutek nieodpowiedniej naprawy albo zastosowania podczas wymiany nieoryginalnych części GARDENA lub części nie polecanych przez nas oraz jeżeli naprawa nie została dokonana przez serwis GARDENA lub autoryzowanego fachowca. Podobne ustalenia obowiązują w przypadku części uzupełniających lub osprzętu.  |
| <b>GR</b> <i>ΔΙΚΑΙΩΜΑ ΥΠΑΙΤΙΑΤΗΤΑΣ</i>         | Σας επισημαίνουμε ότι σύμφωνα με το νόμο περί υπαιτιότητας, δεν φέρουμε καμία ευθύνη για τυχόν ατυχήματα που μπορεί να προκληθούν από τα προϊόντα μας αν αυτά οφείλονται σε λανθασμένη επισκευή ή εξαρτήματα που έχουν αντικατασταθεί και δεν είναι αυθεντικά GARDENA ή εγκεκριμένα από την GARDENA, ή αν οι επισκευές δεν έχουν γίνει από εξουσιοδοτημένο σέρβις της GARDENA. Το ίδιο ισχύει και στην περίπτωση ανταλλακτικών και εξαρτημάτων.   |
| <b>RUS</b> <i>Ответственность за продукцию</i> | Мы однозначно заявляем, что согласно Закону об ответственности за продукцию мы не несем ответственности за нанесенный нашим устройством ущерб, если он обусловлен неквалифицированным ремонтом или заменой деталей на запасные детали неоригинального происхождения GARDENA или неразрешенные нами детали или, если ремонт был произведен не службой сервиса GARDENA или неуполномоченным нами квалифицированным специалистом. Аналогичное относится также к дополнительным деталям и принадлежностям.                                      |

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| <p><b>GB EU Certificate of Conformity</b></p> <p>The undersigned GARDENA International GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm, hereby certifies that, when leaving our factory, the units indicated below are in accordance with the harmonised EU guidelines, EU standards of safety and product specific standards. This certificate becomes void if the units are modified without our approval.</p>   | <p>Description of the unit:<br/>Désignation du matériel :<br/>Omschrijving van het apparaat:<br/>Opis urządzenia:<br/>Περιγραφή του<br/>μηχανήματος:<br/>Название<br/>устройства:</p> <p>Automatic Irrigation Set<br/>Kit d'arrosage automatique<br/>Besproeiingscomputer<br/>Sterownik nawadniania<br/>Σετ Αυτόματου ποτίσματος<br/>με Υγρασιόμετρο<br/>Комплект для автоматиче-<br/>ского управления поливом</p>      |
| <p><b>F Certificat de conformité aux directives européennes</b></p> <p>Le constructeur, soussigné : GARDENA Manufacturing GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm, déclare qu'à la sortie de ses usines le matériel neuf désigné ci-dessous était conforme aux prescriptions des directives européennes énoncées ci-après et conforme aux règles de sécurité et autres règles qui lui sont applicables dans le cadre de l'Union européenne. Toute modification portée sur ce produit sans l'accord express de GARDENA supprime la validité de ce certificat.</p> | <p>Type: Art. No.:<br/>Type : Référence :<br/>Typ: Art. nr.<br/>Típus: Κωδ. No.:<br/>Tip: Apt. №:</p> <p>A 1020 Sensor 1835</p>   |
| <p><b>NL EU-overeenstemmingsverklaring</b></p> <p>Ondergetekende GARDENA Manufacturing GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm, bevestigt, dat het volgende genoemde apparaat in de door ons in de handel gebrachte uitvoering voldoet aan de eis van, en in overeenstemming is met de EU-richtlijnen, de EU-veiligheidsstandaard en de voor het product specifieke standaard. Bij een niet met ons afgestemde verandering aan het apparaat verliest deze verklaring haar geldigheid.</p>  | <p>EU directives:<br/>Directives<br/>européennes :<br/>EU-richtlijnen:<br/>Dyrektwy UE:<br/>Продъяграфъс ЕК:<br/>Директиви EC:</p> <p>89/336/EC</p>   |
| <p><b>PL Deklaracja zgodności Unii Europejskiej</b></p> <p>Niżej podpisany GARDENA Manufacturing GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm, potwierdza, że poniżej opisane urządzenie w wykonaniu wprowadzonym przez nas do obrotu spełnia wymogi zharmonizowanych wytycznych Unii Europejskiej, standardów bezpieczeństwa Unii Europejskiej i standardów specyficznych dla danego produktu. W przypadku wprowadzenia zmian nie uzgodnionych z nami wyjaśnienie to traci swoją ważność.</p>  | <p>Harmonisierte EN EN 55014-1:09/02<br/>EN 55014-2:08/02</p>   |
| <p><b>GR Πιστοποιητικό συμφωνίας EK</b></p> <p>Η υπογεγραμμένη: GARDENA Manufacturing GmbH<br/>Hans-Lorenser-Str. 40 · D-89079 Ulm πιστοποιεί ότι τα μηχανήματα που υποδεικνύονται κάτωθι, όταν φεύγουν από το εργοστάσιο, είναι κατασκευασμένα με τις οδηγίες της Ευρωπαϊκής Κοινότητας και τα Κοινωνικά πρότυπα ασφαλείας και προδιαγραφές.</p>   | <p>Year of CE marking:<br/>Date d'apposition du marquage CE :<br/>Installatiejaar van de CE-aanduiding:<br/>Rok nadania znaku CE:<br/>Έτος πιστοποιητικού<br/>ποιότητας CE:<br/>Год разрешения маркировки<br/>значком СЕ :</p> <p>2006</p>  |
| <p><b>RUS Свидетельство о соответствии ЕС</b></p> <p>Мы, нижеподписавшиеся GARDENA Manufacturing GmbH, Hans-Lorenser-Str. 40, D-89079 Ulm, настоящим подтверждаем, что нижеуказанные устройства, отгруженное с нашего предприятия, имеет исполнение, соответствующее требованиям согласованных директив ЕС, стандартам по технике безопасности ЕС и производственным стандартам. При несогласованном с нами изменении устройства настоящее свидетельство теряет силу.</p>   | <p>Ulm, 01.08.2006<br/>Fait à Ulm, le 01.08.2006<br/>Ulm, 01-08-2006<br/>Ulm, 01.08.2006<br/>Ulm, 01.08.2006<br/>Ульм, 01.08.2006</p> <p>Technical Dept. Manager<br/>Direction technique<br/>Hoofd technische dienst<br/>Kierownictwo Techniczne<br/>Διευθυντής Τεχνικού Τμήματος<br/>Техническое руководство</p>  <p>Peter Lameli</p> |

| Bild Nr.<br>Picture<br>No. | Ersatzteil-Nr.<br>Spare Part No. | Bezeichnung                        | Description                     | Désignation                                |
|----------------------------|----------------------------------|------------------------------------|---------------------------------|--|
|                            |                                  | <b>Bewässerungs-automat A 1020</b> | <b>Watertimer<br/>A 1020</b>    | <b>Programmateur<br/>d'arrosage A 1020</b> |
| 2                          | 1835-00.610.00 #                 | Steuerteil 24 h, vollst.           | Control component 24 h, cpl.    | Boite de commande 24h, cpl.                |
| 3                          | 1815-00.600.23                   | Gehäuse, links                     | Case, left                      | Carter, gauche                             |
| 4                          | 1121-00.000.01                   | Flachdichtung 25,1 x 3             | Washer 25, 1 x 3                | Joint plat 25,1 x 3                        |
| 5 + 4                      | 924-00.600.00                    | Adapter 1" - 3/4"                  | Adapter 1" - 3/4"               | Adaptateur 1" - 3/4"                       |
| 6                          | 1815-00.614.00                   | Feinfilter 1"                      | Fine filter 1"                  | Filtre 1"                                  |
| 6 - 10                     | 1815-00.706.00                   | Ventilkörper, vollst.              | Valve body, cpl.                | Corps de soupape, cpl.                     |
| 6 - 21/3                   | 1815-00.742.00                   | Hydraulikteil, vollst.             | Hydraulic part cpl.             | Pièce hydraulique, cpl.                    |
| 7                          | 1210-00.600.61                   | Anschlusshülse, vollst.            | Connecting bush, cpl.           | Douille de raccord, cpl.                   |
| 8                          | 964-00.505.04                    | O-Ring 18,4 x 2,7                  | O-Ring 18,4 x 2,7               | Joint torique 18,4 x 2,7                   |
| 11                         | 1815-00.617.00                   | Membrane, vollst.                  | Diaphragm, cpl.                 | Membrane, cpl.                             |
| 12                         | 1815-00.610.27                   | Steuerdüse                         | Control nozzle                  | Buse de commande                           |
| 13                         | 1169-00.600.39                   | Druckfeder, groß                   | Pressure spring, large          | Ressort de pression, grand                 |
| 14 + 12                    | 1815-00.743.00                   | Ventildeckel, vollst.              | Valve cap, cpl.                 | Couvercle de soupape, cpl.                 |
| 15                         | 1672-00.600.11                   | O-Ring 24 x 2                      | O-Ring 24 x 2                   | Joint torique 24 x 2                       |
| 16                         | 1174-00.617.00                   | Magnetplatte, vollst.              | Magnetic plate, cpl.            | Clapet magnétique, cpl.                    |
| 17                         | 1174-00.610.11                   | Druckfeder, klein                  | Pressure spring, small          | Ressort de pression, petit                 |
| 6 - 19                     | 1815-00.707.00                   | Ei.Magnet + Hydraulikteil          | Electro-magnet + hydraulic part | Electro-aimant + pièce hydraulique         |
| 20                         | 1825-00.600.01                   | Gehäuse, rechts                    | Case, right                     | Carter, droite                             |
| 21                         | 1174-00.610.07                   | Blechschraube 3,5 x 25-F-H         | Screw 3,5 x 25-F-H              | Vis à tôle 3,5 x 25-F-H                    |
| 22 + 23                    | 1815-00.791.00                   | Diebstahlsicherung, kpl.           | Anti-theft device, cpl.         | Antivol, cpl.                              |
| 23                         | 1174-00.600.13                   | Einwegschraube B4, 2 x 19          | Screw B4, 2 x 19                | Vis à voie unique B4, 2 x 19               |
| 24/25/4                    | 901-00.100.00                    | Hahnstück 3/4"                     | Tap connector 3/4"              | Nez de robinet 3/4"                        |
| 25                         | 900-00.101.06                    | O-Ring System 10,5 x 2,7           | O-Ring System 10,5 x 2,7        | Joint torique Système 10,5 x 2,7           |
| 26                         | 1815-00.610.38                   | Mylarfolie 50, rund                | Mylar foil 50, round            | Feuille mylar 50, rond                     |

Art. 1835



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| <b>Deutschland / Germany</b><br>GARDENA<br>Manufacturing GmbH<br>Service Center<br>Hans-Lorenser-Straße 40<br>D-89079 Ulm<br>Produktfragen:<br>(+49) 731 490-123<br>Reparaturen:<br>(+49) 731 490-290<br>service@gardena.com | <b>Croatia</b><br>KLIS d.o.o.<br>Stanciceva 79<br>10419 Vukovina<br>Phone: (+385) 1 622 7770<br>gardena@klis-trgovina.hr   | <b>Italy</b><br>GARDENA Italia S.p.A.<br>Via Donizetti 22<br>20020 Lainate (Mi)<br>Phone: (+39) 02.93.94.79.1<br>info@gardenaitalia.it  | <b>Singapore</b><br>Hy - Ray PRIVATE LIMITED<br>40 Jalan Pemimpin<br>#02-08 Tat Ann Building<br>Singapore 577185<br>Phone: (+65) 6253 2277<br>hyray@singnet.com.sg   |
| <b>Argentina</b><br>Argensem® S.A.<br>Calle Colonia Japonesa s/n<br>(1625) Loma Verde<br>Escobar, Buenos Aires<br>Phone: (+54) 34 88 49 40 40<br>info@argensem.com.ar  | <b>Cyprus</b><br>FARMOKIPIKI LTD<br>P.O. Box 7098<br>74, Digeni Akrita Ave.<br>1641 Nicosia<br>Phone: (+357) 22 75 47 62<br>condam@spidernet.com.cy  | <b>Japan</b><br>KAKUICHI Co. Ltd.<br>Sumitomo Realty &<br>Development Kojimachi<br>BLDG., 8F<br>5-1 Nibanncyo, Chiyoda-ku<br>Tokyo 100-0084<br>Phone: (+81) 33 264 4721<br>m_ishihara@kaku-ichi.co.jp   | <b>Slovak Republic</b><br>GARDENA Slovensko, s.r.o.<br>Panónska cesta 17<br>851 04 Bratislava<br>Phone: (+421) 263 453 722<br>info@gardena.sk  |
| <b>Australia</b><br>Nylex Consumer Products<br>50-70 Stanley Drive<br>Somerton, Victoria, 3062<br>Phone: (+61) 1800 658 276<br>spare.parts@nylex.com.au  | <b>Czech Republic</b><br>GARDENA spol. s r.o.<br>Řípská 20a, č.p. 1153<br>627 00 Brno<br>Phone: (+420) 800 100 425<br>gardena@gardenabrn.cz  | <b>Luxembourg</b><br>Magasins Jules Neuberg<br>39, rue Jacques Stas<br>Luxembourg-Gasperich 2549<br>Case Postale No. 12<br>Luxembourg 2010<br>Phone: (+352) 40 14 01<br>api@neuberg.lu                  | <b>Slovenia</b><br>GARDENA d.o.o.<br>Brodisce 15<br>1236 Trzin<br>Phone: (+386) 1 580 93 32<br>servis@gardena.si   |
| <b>Austria / Österreich</b><br>GARDENA<br>Österreich Ges.m.b.H.<br>Stettnerweg 11-15<br>2100 Korneuburg<br>Tel.: (+43) 22 62 7 45 45 36<br>kundendienst@gardena.at   | <b>Denmark</b><br>GARDENA Norden AB<br>Salgsafdeling Danmark<br>Box 9003<br>S-200 39 Malmö<br>info@gardena.dk  | <b>Netherlands</b><br>GARDENA Nederland B.V.<br>Postbus 50176<br>1305 AD ALMERE<br>Phone: (+31) 36 521 00 00<br>info@gardena.nl   | <b>South Africa</b><br>GARDENA<br>South Africa (Pty) Ltd.<br>P.O. Box 11534<br>Vorna Valley 1686<br>Phone: (+27) 11 315 02 23<br>sales@gardena.co.za   |
| <b>Belgium</b><br>GARDENA Belgium NV/SA<br>Sterrebeekstraat 163<br>1930 Zaventem<br>Phone: (+32) 2 7 20 92 12<br>Mail: info@gardena.be   | <b>Finland</b><br>Habitec Oy<br>Martinkyläntie 52<br>01720 Vantaa  | <b>Neth. Antilles</b><br>GARDENA<br>PARIS NORD 2<br>69, rue de la Belle Etoile<br>BP 57080<br>ROISSY EN FRANCE<br>95948 ROISSY CDG CEDEX<br>Tél. (+33) 0826 101 455<br>service.consommateurs@gardena.fr | <b>Spain</b><br>GARDENA IBÉRICA S.L.U.<br>C / Basauri, nº 6<br>La Florida<br>28023 Madrid<br>Phone: (+34) 91 708 05 00<br>atencioncliente@gardena.es   |
| <b>Brazil</b><br>Palash Comércio e<br>Importação Ltda.<br>Rua Américo Brasiliense,<br>2414 - Chácara Sto Antônio<br>São Paulo - SP - Brasil -<br>CEP 04715-005<br>Phone: (+55) 11 5181-0909<br>eduardo@palash.com.br         | <b>Great Britain</b><br>GARDENA UK Ltd.<br>27-28 Brenkley Way<br>Bleazerd Business Park<br>Seaton Burn<br>Newcastle upon Tyne<br>NE13 6DS<br>info@gardena.co.uk                              | <b>New Zealand</b><br>NYLEX New Zealand Limited<br>Building 2, 118 Savill Drive<br>Mangere, Auckland<br>Phone: (+64) 9 270 1806<br>lena.chapman@nylex.com.au  | <b>Sweden</b><br>GARDENA Norden AB<br>Försäljningskontor Sverige<br>Box 9003<br>200 39 Malmö<br>info@gardena.se  |
| <b>Bulgaria</b><br>DENEX LTD.<br>2 Luis Ahalier Str. - 7th floor<br>Sofia 1404<br>Phone: (+359) 2 958 18 21<br>office@denex-bg.com   | <b>Greece</b><br>Agrokip<br>Psomadopoulos S.A.<br>Ifaioustou 33A<br>Industrial Area Koropi<br>194 00 Athens Greece<br>V.A.T. EL093474846<br>Phone: (+30) 210 66 20 225<br>service@agrokip.gr | <b>Norway</b><br>GARDENA Norden AB<br>Salgskontor Norge<br>Karahaugveien 89<br>1086 Oslo<br>info@gardena.no   | <b>Switzerland / Schweiz</b><br>GARDENA (Schweiz) AG<br>Bitzberg 1<br>8184 Bachenbülach<br>Phone: (+41) 848 800 464<br>info@gardena.ch   |
| <b>Canada</b><br>GARDENA Canada Ltd.<br>100 Summerlea Road<br>Brampton, Ontario L6T 4X3<br>Phone: (+1) 905 792 93 30<br>info@gardenacanada.com   | <b>Portugal</b><br>GARDENA Portugal Lda.<br>Recta da Granja do Marquês<br>Edif. GARDENA Algueirão<br>2725-596 Mem Martins<br>Phone: (+351) 21 922 85 30<br>info@gardena.pt                   | <b>Turkey</b><br>GARDENA / Dost Dış Ticaret<br>Mümessilik A.Ş. Sanayi<br>Çad. Adil Sokak No. 1<br>Kartal - İstanbul<br>Phone: (+90) 216 38 93 939<br>info@gardena-dost.com.tr                           | <b>Ukraine / Украина</b><br>ALTTEST JSC<br>4 Petropavlivska Street<br>Petropavlivska<br>Borschahivka Town<br>Kyivo Svyatoslyny Region<br>08130, Ukraine<br>Phone: (+380) 44 459 57 03<br>upy@alttest.kiev.ua |
| <b>Chile</b><br>Antonio Martinic y Cia Ltda.<br>Cassillas 272<br>Centro de Cassillas<br>Santiago de Chile<br>Phone: (+56) 2 20 10 708<br>garfar_cl@yahoo.com   | <b>Hungary</b><br>GARDENA<br>Magyarország Kft.<br>Késmárki utca 22<br>1158 Budapest<br>Phone: (+36) 80 20 40 33<br>gardena@gardena.hu  | <b>Romania</b><br>MADEX INTERNATIONAL SRL<br>Soseaua Odaii 117-123,<br>Sector 1,<br>Bucureşti, RO 013603<br>Phone: (+40) 21 352 76 03<br>madex@ines.ro  | <b>USA</b><br>Melnor Inc.<br>3085 Shawnee Drive<br>Winchester, VA 22604<br>Phone: (+1) 540 722-9080<br>service_us@melnor.com   |
| <b>Costa Rica</b><br>Compania Exim<br>Euroiberoamericana S.A.<br>Los Colegios, Moravia,<br>200 metros al Sur del Colegio<br>Saint Francis - San José<br>Phone: (+506) 297 68 83<br>exim_euro@racsa.co.cr                     | <b>Iceland</b><br>Ó. Johnson & Kaaber<br>Tunguhalsi 1<br>110 Reykjavík<br>oqj@ojk.is   | <b>Russia / Россия</b><br>ООО ГАРДЕНА РУС<br>123007, г. Москва<br>Хорошевское шоссе, д. 32A<br>Тел.: (+7) 495 647 25 10<br>info@gardena-rus.ru  | 1835-29.960.02/0307<br>© GARDENA<br>Manufacturing GmbH<br>D-89070 Ulm<br><a href="http://www.gardena.com">http://www.gardena.com</a>   |