



LCIE

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Site de Grenoble
Z.I. Centr'Alp
170, Rue de Chatagnon
38430 MOIRANS - FRANCE

USER MANUAL

FCCID: 2BBPH-DULCOPOOLPRO

DulcoPool PRO

PROMINENT DULCOPOOL Pro®
Controller for public swimming pool (Part 2)



General programming instructions

ProMinent®

Reference: DOC0668

Rev: 1.0

General programming instructions



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I. Generality

1) Scope

PROMINENT DULCOPOL Pro® analyser/controller you have purchased is a high-tech electronic device. It was designed and created carefully for your enjoyment and your peace of action.

Its remarkable faculty to adapt to different swimming pool structures allows it to settle in all difficult environments where mastery of water treatment is most decisive.

Thanks to **DULCOPOL Pro** ease of use, their user-friendliness and their remarkable technicality, you will fully enjoy its many possibilities and will be assured of a perfect control and perfect monitoring of your pool water quality.

You will find in the instructions that follow, all the information needed for the installation, use and maintenance of your new equipment.

- > Packaging
- > Installation
- > Basic equipments
- > Specifications
- > Commissioning instructions
- > Safety instructions

If you need more information or if you encounter problems that not have been specified in this guide, please quickly contact your retailer or ProMinent GmbH sales department, either at the agency or office in your area, or at technical/quality service at our head office. We will do our best to help you and make you enjoy our advice and our knowledge in the field of measurement and treatment of pools water.

2) FCC conformity

The **PROMINENT DULCOPOL Pro**® controller complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) this device may not cause harmful interference (2) this device must accept any interference received, including interference that may cause undesired operation FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect this equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes and modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Remark: To ensure compliance with the FCC regulations on electromagnetic interference for a class B device, use cables properly shielded and connected to the ground as recommended in this manual. The use of a cable that is not properly shielded or earthed for risk of violating the FCC rules.

Radio Frequency (RF) Exposure Compliance of Radiocommunication for mobile Apparatus To satisfy FCC RF Exposure requirements for mobile devices, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operation at closer than this distance is not recommended. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



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Generality Page 6/80

Contains:

- WiFi module: FCC ID : 2AC7Z-ESPWROOM02
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- GSM module: FCC ID: LDV-0912142009007
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. (for FCC)

3) Use of the document

Please read carefully the entire document before starting the installation and the commissioning of the controller device, in order to ensure the safety of swimmers, users and equipment's.

The information provided in this document must be strictly observed. **ProMinent GmbH** declines all responsibility in cases where failure to comply with the instructions of this documents.


The following symbols and pictograms will be used to facilitate reading and understanding of these instructions.

- Information
- ▶ Action to do
- > Element of a list or enumeration


4) Symbols and signs


=== Identification of a continuous voltage or current


~ Identification of an alternative voltage or current


 Protective ground


 Functionnal ground

 Risk of injury or accident. Identifies a warning concerning a potentially dangerous risk. The documentation must be consulted by the user with each time the symbol is notified. If the instructions are not respected, this presents risks of death, physical injuries or property damages.

 Electric hazard. Identifies a warning statement relative to a mortal electric danger. If the instructions are not strictly respected, this implies an inevitable risk of physical injuries or death.

 Risk of incorrect operation or damage for the device

 Comment or particular information.

 Recyclable element

General programming instructions



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5) Storage and transport



It is important to store and to transport the **PROMINENT DULCOPOOL PRO** controller in its original packaging in order to minimize risk of damage.
Furthermore, the package must be stored in an environment that is protected against humidity and exposure to chemical products.

Environmental conditions for transport and storage:

Temperature: -10 °C à 70 °C
Air humidity: Maximum of 90% with no condensation

6) Packaging



The device is delivered without power cable.

Caps of the box are pre-drilled and fitted with corresponding cable glands conform to the maintenance of IP65 protection. Cables used must be adapted to them in order to respect the protection index.
Shielded cables for connecting pH and ORP electrodes are not supplied.

The controller is delivered with:

- ✓ **PROMINENT DULCOPOOL Pro**® central analyser/controller
- ✓ Installation and starting instructions
- ✓ General programming instructions
- ✓ Communication programming instructions (Option)

7) Warranty

The warranty is provided according to the terms of our general conditions of sale and delivery as long as the following conditions are met:

- Use of the equipment according to the instructions of this notice
- No modifications of the equipment which may modify its behaviour and no incorrect manipulation
- Respect for the electrical safety conditions



Consumable material is no longer covered by warranty as soon as it's put into service.

II. Safety and environmental instructions

Please:

- Read this manual carefully before the unpacking, the installing or the commissioning of this equipment
- Take into account all the hazards and of recommended precautionary measures

The failure to respect these procedures can result in serious injury to users or damaging the device.

1) Use of the equipment

PROMINENT DULCOPOOL Pro® controllers has been designed to measure and control pH, Chlorine, Bromine (BCDMH) using appropriate sensors and actuator controls within the scope of use described in this manual.



All other uses are considered to be non-conforming and must therefore be forbidden. ProMinent GmbH will not be responsible in any case for any damage that result from such uses.



The 12V Ext must not be used when the product is connected to an electrical network within the following range: 100 – 208V



Do not use the device for measurements on the network directly, but only on the secondary circuit under very low safety voltage.

2) User obligations

The user undertakes not to allow its employees to work with the **PROMINENT DULCOPOOL Pro**® controller described in this manual unless they:

- Are aware of the fundamental instructions relating to work safety and prevention of accidents
- Are trained in the use of the device and its environment
- Have read and understood these instructions, warnings and manipulation rules

3) Risk prevention



The installation and connection of the **PROMINENT DULCOPOOL Pro**® controller should be only performed by specialized personnel and qualified for this task.
The installation must comply with the current safety standards and instructions!



Before opening the controller or manipulate the relay outputs, always remember to switch-off the primary power supply!
Never open the controller when it is powered on!
Maintenance operations and repairs should be only performed by trained and specialized personnel!



Take care when choosing the location for installing the controller!
PROMINENT DULCOPOOL Pro® controller should not be installed in a hazardous environment and should be protected against splashing with water or chemical products. It should be installed in a dry, well-ventilated and isolated location.

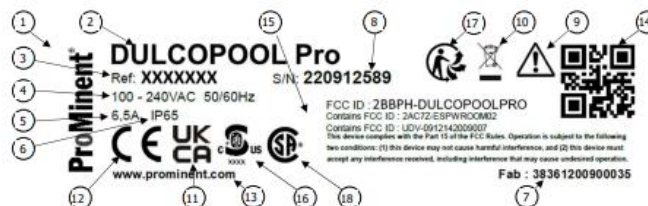


Make sure that the chemical sensors used with this controller correspond well to the chemicals used. Refer to the individual technical note of each sensor. Chemistry of water is very complex, in case of doubt, contact immediately our engineering service or your approved installer/reseller.



Chemical sensors are sensitive elements using consumable parts. They must be supervised, maintained and calibrated regularly using specific calibrator systems not-provided with this equipment. In the event of defect, a surplus possible hazard of chemical injections can be noted. In the doubt, a service contract must be taken near your reseller/installer or failing this near our engineering services. Contact your approved installer/reseller or our business service for more information.

4) Identification and localization of the nameplate



(1) Manufacturer's label	(10) Product which can be recycled
(2) Model of the product / Trade Mark	(11) UKCA approved
(3) Reference of the product	(12) CE approved
(4) Range of power supply	(13) Country of manufacture
(5) Values of maximum current	(14) Manufacturer square code
(6) Class of protection	(15) FCC ID
(7) Identification of the manufacturer	(16) cBvUS approved
(8) Serial number	(17) Triman logo
(9) Particular risk. Read the manual	(18) CSA approved



5) Disposal and conformity

The recyclable packaging of the **PROMINENT DULCOPOOL Pro** equipment must be disposed of according to current regulations.



Elements such as paper, cardboard, plastic or any other recyclable elements must be taken to a suitable sorting center.



According to European directive 2012/19/EC, this symbol means that as of 4 July 2012 electrical appliances cannot be thrown out together with household or industrial waste. According to current regulations, consumers within the European Union are required, as of this date, to return their used devices to the manufacturer, who will take care of disposing them at no extra expense.



According to European directive 2011/65/EC, this symbol means that the **PROMINENT DULCOPOOL Pro** controller is designed in compliance with the restrictions on hazardous substances.



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CE According to low-voltage directive (2014/35/UE) and the electromagnetic compatibility directive (2014/30/UE), this symbol means that the device has been designed in compliance with the previously cited directives.

FCC In accordance with part 15 of the FCC regulation (Federal communications commission), this symbol indicates that the device was tested and approved under the respect and the conditions of the limits for a Class B digital device.

IEC The product complies with the requirements of IEC 61326-1 relating to immunity and emissions concerning electromagnetic compatibility in a basic environment.

UK CA According to low-voltage directive (2014/35/UE) and the electromagnetic compatibility directive (2014/30/UE), this symbol means that the device has been designed in compliance with the previously cited directives.

UL US In accordance with UL61010 and PART 15 class B computing device peripheral, this symbol indicates that the device has been designed in accordance with the above-mentioned directives.

RECYCLING In accordance with Decree no. 2021-835 of 29 June 2021 on consumer information on the waste sorting rule.

6) Radio technologies in equipment

Radio technologies			
Technologies	Number of antenna	Radiated powers	Frequency bands of use
WIFI	1	< 20dBm	2400 MHz to 2483.5 MHz 2.4 GHz Band Exclusion Band : [2280 MHz – 2603.5 MHz]
2G	GSM900	33dBm	900MHz
	DCS1800	30dBm	1800MHz



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DulcoPool PRO Light

PROMINENT DULCOPOOL Pro Light®
Controller for public swimming pool (Part 2)



General programming and communication instructions

ProMinent®

Reference: DOC0665

Rev: 1.0

General programming and communication instructions



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Page 5/64

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1) Scope

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Its remarkable faculty to adapt to different swimming pool structures allows it to settle in all difficult environments where mastery of water treatment is most decisive.

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2) FCC conformity

The **PROMINENT DULCOPOOL Pro Light**® controller complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

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General programming and communication instructions



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Temperature: -10 °C à 70 °C
Air humidity: Maximum of 90% with no condensation

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The device is delivered without power cable.

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Before opening the controller or manipulate the relay outputs, always remember to switch-off the primary power supply!
 Never open the controller when it is powered on!
 Maintenance operations and repairs should be only performed by trained and specialized personnel!



Take care when choosing the location for installing the controller!
PROMINENT DULCOPOOL Pro Light® controller should not be installed in a hazardous environment and should be protected against splashing with water or chemical products. It should be installed in a dry, well-ventilated and isolated location.

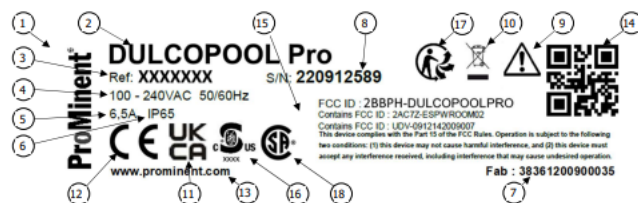


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4) Identification and localization of the nameplate





(1) Manufacturer's label	(10) Product which can be recycled
(2) Model of the product / Trade Mark	(11) UKCA approved
(3) Reference of the product	(12) CE approved
(4) Range of power supply	(13) Country of manufacture
(5) Values of maximum current	(14) Manufacturer square code
(6) Class of protection	(15) FCC ID
(7) Identification of the manufacturer	(16) cBUS approved
(8) Serial number	(17) Triman logo
(9) Particular risk. Read the manual	(18) CSA approved





5) Disposal and conformity


The recyclable packaging of the **PROMINENT DULCOPOOL Pro Light®** equipment must be disposed of according to current regulations.


 Elements such as paper, cardboard, plastic or any other recyclable elements must be taken to a suitable sorting center.


 According to European directive 2012/19/EC, this symbol means that as of 4 July 2012 electrical appliances cannot be thrown out together with household or industrial waste. According to current regulations, consumers within the European Union are required, as of this date, to return their used devices to the manufacturer, who will take care of disposing them at no extra expense.


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 The product complies with the requirements of IEC 61326-1 relating to immunity and emissions concerning electromagnetic compatibility in a basic environment.

 According to low-voltage directive (2014/35/UE) and the electromagnetic compatibility directive (2014/30/UE), this symbol means that the device has been designed in compliance with the previously cited directives.

 In accordance with UL61010 and PART 15 class B computing device peripheral, this symbol indicates that the device has been designed in accordance with the above-mentioned directives.

 In accordance with Decree no. 2021-835 of 29 June 2021 on consumer information on the waste sorting rule.

6) Radio technologies in equipment

Radio technologies			
Technologies	Number of antenna	Radiated powers	Frequency bands of use
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