

Niveau

REGUL'
ÉLECTRONIQUE
Peace of mind



Niveau

Regulation, Level control, avoid freezing

Manuel and installation

edition
16012019

DESIGNED AND MANUFACTURED FRANCE SINCE 1989

Precautions of use

Security

- Make sure that the supply voltage of the device does not exceed 240v AC/50Hz.
- If liquid or any object had entered the housing, disconnect the device and have it checked by a technician qualified before returning to use.
- Prohibition to pierce/drill the box, at the risk of losing the warranty on the device.
- The electrical control cabinet must be found near the device and be easy to access.
- After turning off the power at means of the on / off switch, do not open the device before the lights are off.
- Do not install the unit near a heat source.

Forwarding

Keep the original carton and the packaging material; they will be very useful if one must ship the device back one day.

To ensure maximum protection, repack the device as packed at the factory.



www.regul.fr Regul electronic designs and manufactures on site, in France, all of its products of salt electrolysis, pH regulation and water level regulation.

Advisory

Niveau is an electrical device that must not be exposed to rain or moisture.

The technical room must be correctly ventilated.

The power supply must be protected upstream by a differential circuit breaker 30mA.

To avoid any risk of electrocution, open the box only for its installation or service intervention (to change an electronic card), after having cut the power supply.



- You have purchased a device of Regul'Electronique, we thank you for your trust.

- unless otherwise specified particular, the guarantee of our devices is 3 years from the date of your invoice.

The Niveau sensor is guaranteed a year.

The warranty excludes all parts wear (fuses, batteries, seals, valves, diaphragms pump etc ...)

- This warranty is limited to the supplies of our Society. It consists of the repair, by us and in our workshops, defects in manufacturing and matter, that the customer will have to prove.

- The material will have to be returned Franco de Harbor. Removal and reinstallation costs are excluded from the guarantee.

- In all cases, our liability is limited to replacement of defective parts without no compensation or damages and interest can be claimed for material damage or caused.

- The warranty ceases when our equipment is modified outside our workshops.

- The warranty does not apply to replacements nor to the repairs that would result from the usury normal equipment, deterioration or accidents resulting from negligence, lack of monitoring or maintenance, installation not consistent or abnormal use of the devices.

- In cases of inappropriate treatments and adjustments, our responsibility can not be engaged, especially in case of corrosion, paint snags and defects related to excessive constraints of use, or if the equipment must, by these conditions, be brought to work at too fast rates supported.

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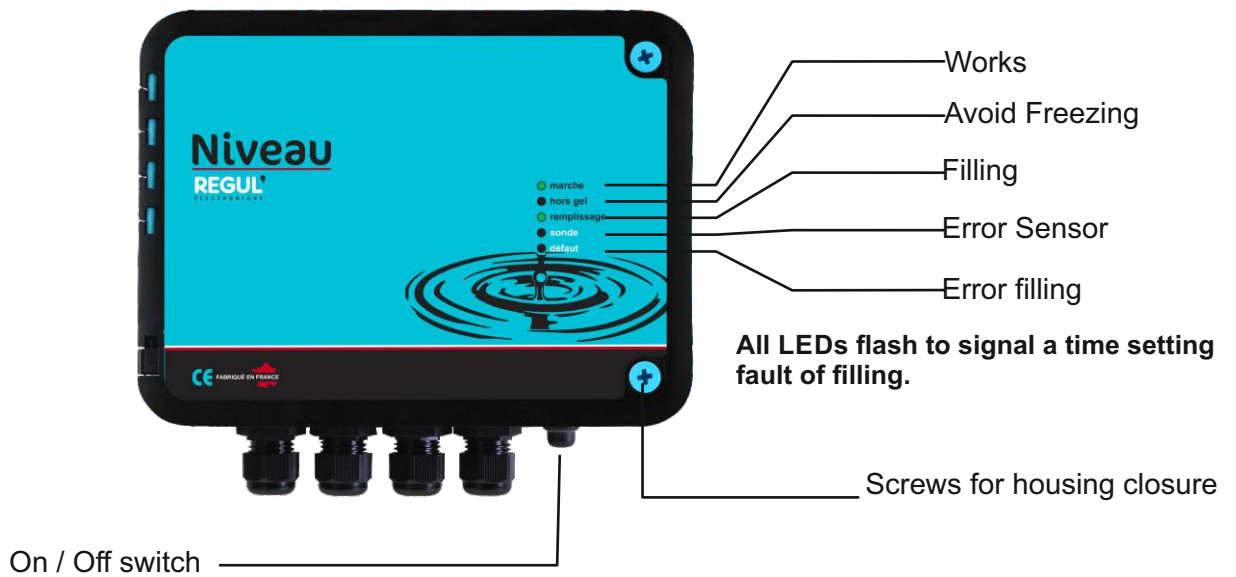
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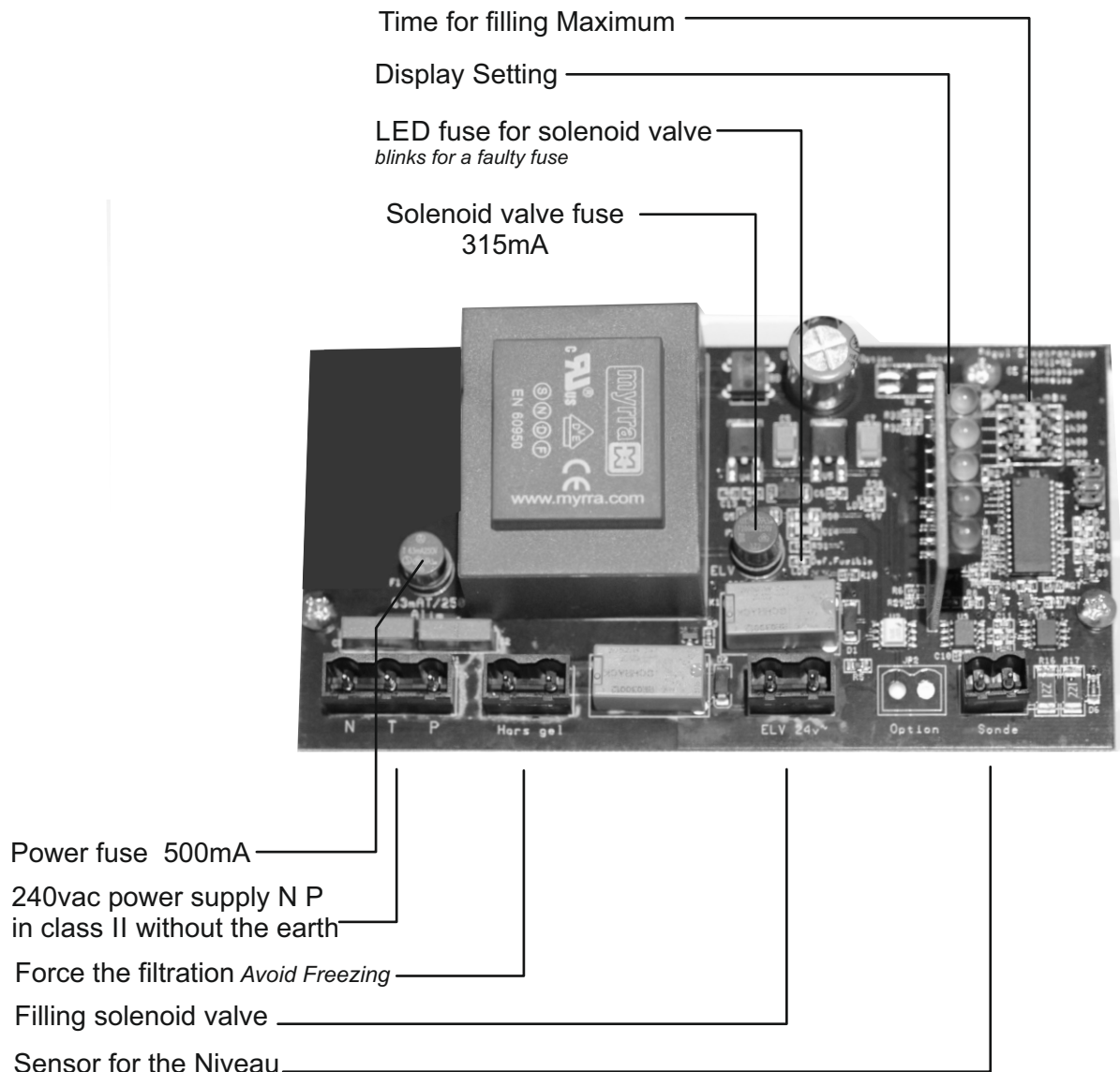
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Meanings of the signal

Front view



Inside view



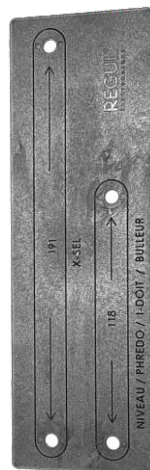
Packaging

Check the package to make sure it contains the following:

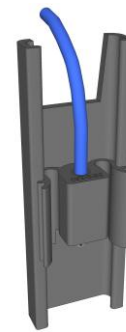
Régul' Niveau



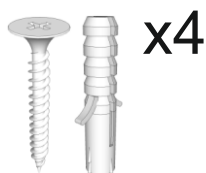
Fixation template



Sensor Niveau and mounting strip



pegs and screws for fixation



2 Scotchlok



installer's manual



Principle of operation

The Niveau helps maintain a constant level of water in the pool. It avoids over-consumption of water by detecting all fills untimely. It is not designed to fill a swimming pool (except for a first filling see page 9), you must first adjust the water level before switching on the appliance.

1- Installation of the device

Fixation

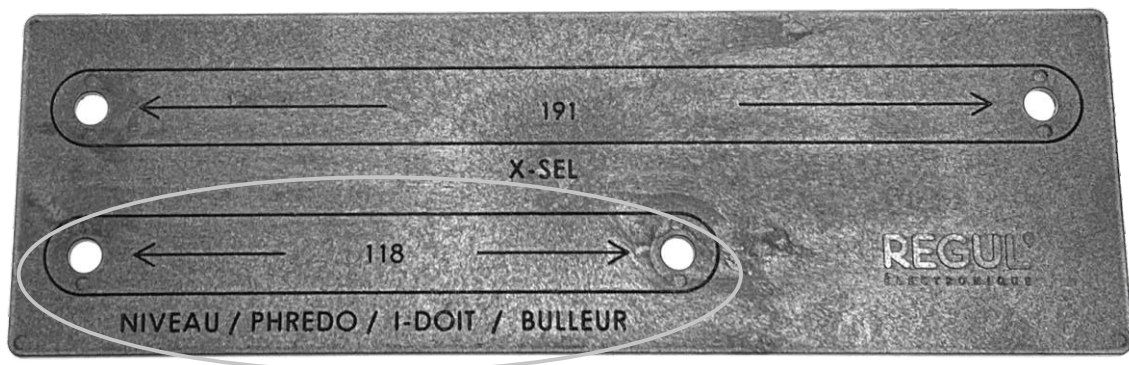
The Niveau is supplied with a drilling template for easy placement.

The device has an external dimension of 155 x 250 x 60mm.

In order to maintain the performance and reliability of the device, provide the necessary space between the device and the nearest obstacles.

For attachment of the enclosure to a special support, it may be necessary to use another type of ankle.

Fixation template for Regul devices.



Spacing of the holes for the iDOit



Drilling the box leads to removal of the guarantee

The necessary accessories for wall mounting the device are delivered



2x 4x35mm stainless steel screws

Use the given material.

These screws were selected due to the high quality.



2x dowels 6mm

Screws of stainless steel for a proper fixation.

Attention

The unit must be secured from water splashing, in a room which is properly ventilated.

2- Device connections

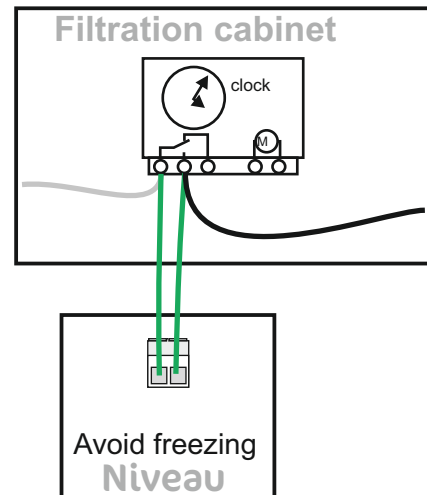
The Niveau must be supplied with electricity constantly, since it functions all the time.

See on page 5

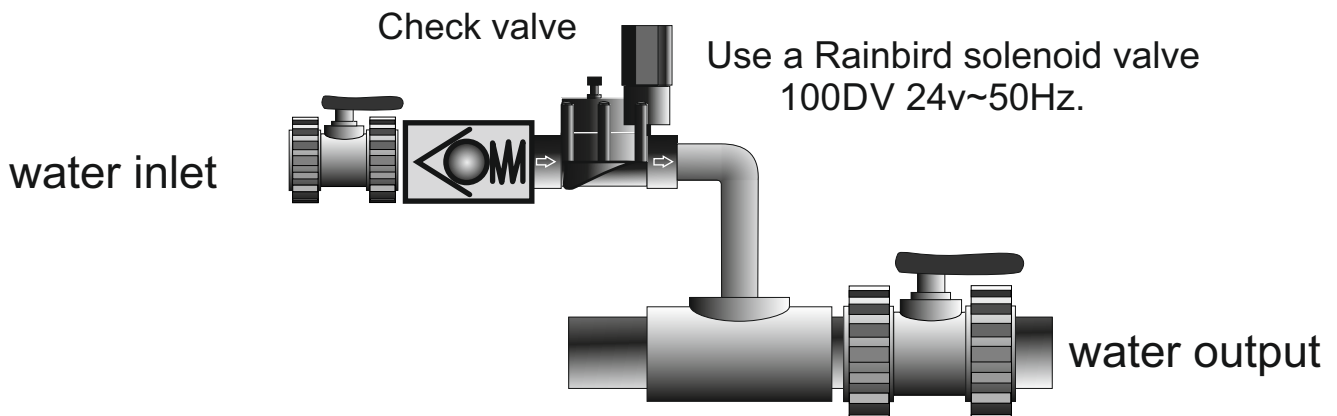
Avoid Freezing

For any connection of an electrical regulator use flexible cable.
Connect the Niveau to the Force terminal block Filtration (if available) of the filtration cabinet.

If not, use the diagram opposite.
The Niveau has a dry contact normally open (contact closes below 3 ° c)



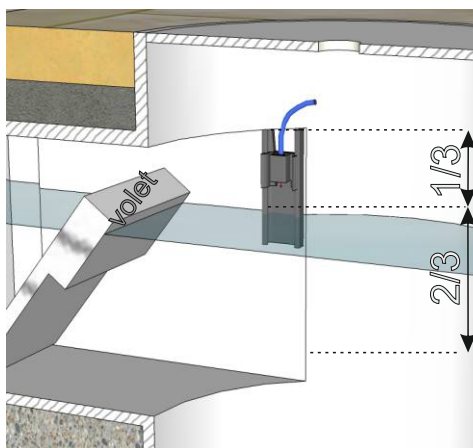
Hydraulic installation of the water supply



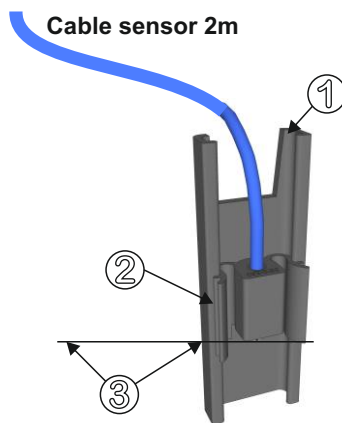
3- The Niveau sensor

The Niveau sensor must be placed in the skimmer.

Flexible cable connection	length		section
Note : Beyond 100m, the signal provided by the probe is no longer powerful enough, and the necessary section of the cable becomes too big.	until	20m	1,0 mm ²
	until	40m	1,5 mm ²
	until	80m	2,5 mm ²



Inside view of a skimmer



The probe must always be positioned vertically

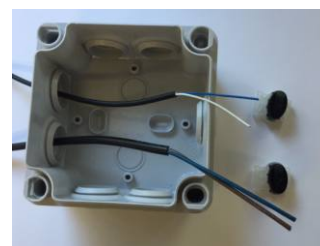
- 1- Glue the ruler (ABS glue)
- 2- Fixate the sensor with one click
- 3- Adjust the sensor to the level ideal



Connection of the Niveau sensor

The SCOTCHLOK ensures a perfect electrical contact between the wires

- ① Insert the two cables in the connection box (not supplied)



- ② Push the wires to the end, to connect, without stripping them.

- ③ Tighten the connector all the way using a pair of pliers



- ④ This waterproof connection will ensure a durable operation of the probe

4 - Settings before the start

Start-Settings

Setting of the filling time



The filling safety limits the opening time of the electrovalve, allowing to indicate a possible leak.

Beyond the set filling time, the red fault filling light blinks on the front panel and filling is stopped to prevent leakage possible on the pool, to cancel the fault, turn off then turn on the device.

Upgraded **Pool Mode** for Pools with avoid Freezing Management.

5min filling for 1min break.

Limits filling to 1, 2 and 4 hours with stop and fault display.

The **SPA mode** is intended for the upgrade of small volume of water, less than 5m³, where the constraints of filling time, safety and temperature are different. 1 minute of filling for 1 minute of pause.

Limits filling to 5, 10 and 15 minutes with stop and fault display.

No frost function in the SPA function.

OFF function in SPA and Pool mode:

Normal operation mode without filling limit.

ATTENTION no anomaly detection, swimming pool leak, pipeline or solenoid valve blocked, is not possible in this mode

Fill function once: **Fill. 1x**

This function allows the first filling of the pool to make the setting water level up to the probe without interruption.

ATTENTION, in this case, the pool will be filled only once, once filling done position switches see examples of settings.

Example of settings

Pool Mode	<p>Security filling</p> <p>Filling 1x</p>	<p>Sécurité remplissage</p> <p>Filling limit of 2h</p>	<p>Sécurité remplissage</p> <p>OFF=no limit</p>
SPA Mode	<p>Sécurité remplissage</p> <p>Fill 1x</p>	<p>Sécurité remplissage</p> <p>limit of 10min</p>	<p>Sécurité remplissage</p> <p>OFF= no limite</p>

Attention: all LEDs flash, to indicate a fault setting switch.

5- Functioning

1) 1 minute test function

As soon as the power is turned on, the device performs a TEST function.

The solenoid valve is controlled for 10 seconds.

After a few seconds to warm up the probes:

- If the probe is out of water, the fault light comes on.
- If the probe is in the water, the light remains off.

2) Normal operation

After 1 minute of test function the device switches to automatic :

- If the sensor is immersed, the next level check will be done 2h later.
- If the probe is out of water, the solenoid valve performs a filling for 5 minutes then the device checks the level again for water and refill another 5 minutes if necessary.

3) Avoid freezing

Continuous measurement of the temperature makes it possible to detect a low temperature, 3° C, below which the Niveau forces the filtration to avoid freezing in the installation.

When the temperature returns to 5° C the Niveau stops forcing the filtration.

Abnormalities

After a filling time (maxi chosen) continuously, the indicator red Fault flashes and the filling stops (it prevents a fault filling or leaking problem).

To cancel the fault, stop the device and then put it back voltage.

The Niveau continuously tests the state of the probe to allow prevent its possible fault and display it by the LED Probe when it is short circuit, cut or out of tolerance.

No filling with filling light on.

Solution: If the "Fuse Def." LED is flashing (see page 4) change the fuse solenoid valve 315mA.

All the lights flash:

- Correct the anomaly in the position of the switches

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