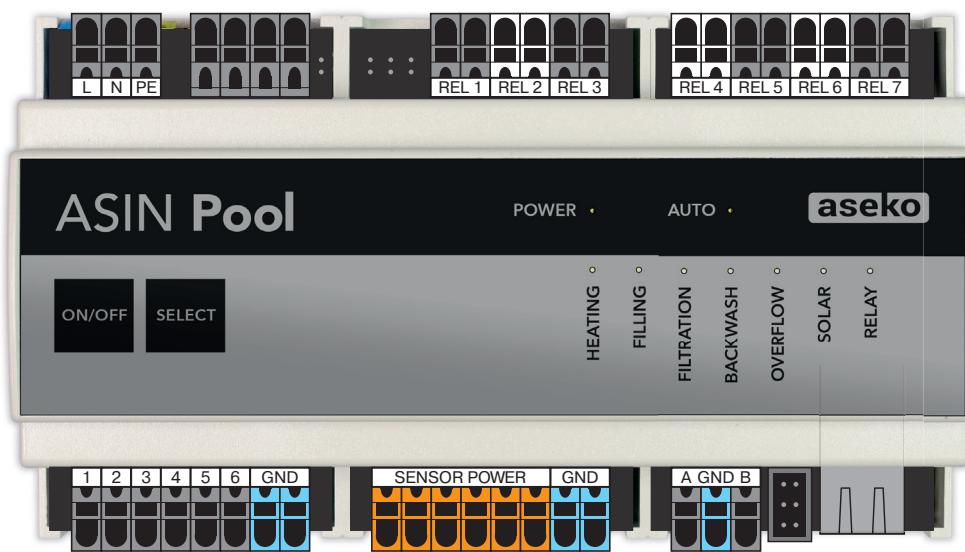# ASIN Pool

INTELLIGENT NETWORK CONTROLLER
to Control the Pool Technology with Smartphone

ASIN Pool

VS Pump Module

General Safety Information

This user manual has basic information that should be observed during assembly, start-up, operation, and maintenance. Therefore, this user manual must be read by installers and operators prior to assembly and start/up, and must be accessible to every user of this unit. Additionally, all further safety information in this document absolutely must be observed. Read and follow all instructions. In order to minimise the danger of injury, do not allow children to use this product. Hazards from non-compliance with safety information. Non-compliance with safety information can result in hazards to persons, the environment, and the equipment. Non-compliance with safety information will result in a forfeit of any potential right to damage compensation.

Non-Observance of Safety Instructions

Failure to observe the safety instructions given in this User Manual can result in damage to Device and/or health and property, including environment.

Failure to observe the safety instructions and information given in this User Manual shall result in exclusion or restriction of the prospective right to compensation for damage.

Insufficient Qualification of Person Using the Device

Hazards in the event of insufficiently qualified personnel, potential consequence: Injury, heavy material damage.

- The system operator must ensure compliance with the required qualification level.
- Any and all work may only be performed by correspondingly qualified personnel.
- Access to the system must be prevented for insufficiently qualified persons, e.g. via access codes and passwords.

Connection of power supply must be provided by person with corresponding qualification. Opening the unit cover or change of any components of the unit is prohibited.

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Non-compliance with informational text

There is a great deal of informational text indicating hazards and their avoidance. Not observing informational text may lead to hazards. Potential consequence: gravest degree of injury, heavy material damage.

- Read all informational text carefully.
- Cancel the process if you are unable to exclude all potential hazards.

Use of Device New Functions

Because of the continued development, a ASIN Pool® unit may contain functions, which are not completely described in this version of the user manual. The use of such new or extended functions without a profound and secure understanding by the operator may result in malfunctions and severe problems. Potential consequence: Injury, heavy material damage.

- Make sure to get a profound and secure understanding of a function and relevant boundary conditions, before you start to use it.

- Check for an updated version of the user manual or additional documentation available for the relevant functions.

- Make use of the integrated help function of the ASIN Pool® to get detailed information on   functions and their parameter settings.

- In case it should not be possible to get a profound and secure understanding of a function based on the available documentation, do not use this function.

Conditions to be Met before You Start Using Device

Make sure you have a newest and updated version of the user manual and other documentation for all functions of the unit. Use and read the integrated help features. In case of not understanding the information about certain features of the unit, do not use these features.
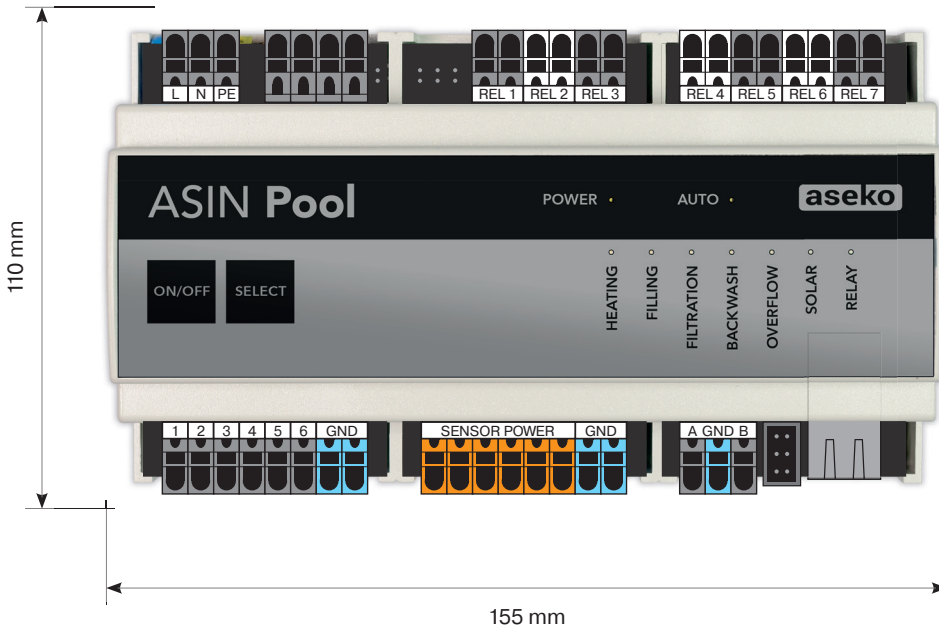
Pool cover

Operate the pool cover only if you have clear view of the pool. Watch the pool whole time that cover is on the move. Operating the cover without the clear sight of the pool can cause serious injuries or death.
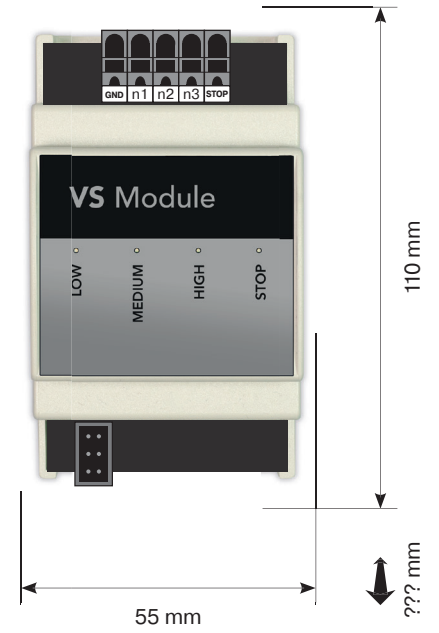
The remote control of the swimming pool cover may be in violation of the laws of your country.

ASIN Pool

ASIN Pool   # 12166

VS Module   # 12167

ASIN Pool Electrical Box

ASIN Pool Electrical Box   # 12168

Technical specification

Power supply	110-240 VAC / 50 Hz / 60 Hz
Input power	10 VA
Overvoltage category	II
Protection degree	IP30
Climatic resistance	+5 to +40°C
Relative humidity	5 - 95% (non-condensing RH)
Weight	800 g
Installation	indoor, wall DIN rail mounting
Relay output contacts	max 230 V / 1 A, potential free contact - NO
Dimensions	155 x 110 x 60 mm and 55 x 110 x 60 mm
Sensor power supply	6 x 18 VDC / max 50mA
Maximum altitude	2 000 m
Pollution level	2 (dust)

Accessories for Purchase

Water thermometer with holder #12010

Air thermometer #8953

Solar collector thermometer #8953

Solenoid valve (water filling) #13153

5-way BESGO valve (backwash)

3-way BESGO valve (flow switch)

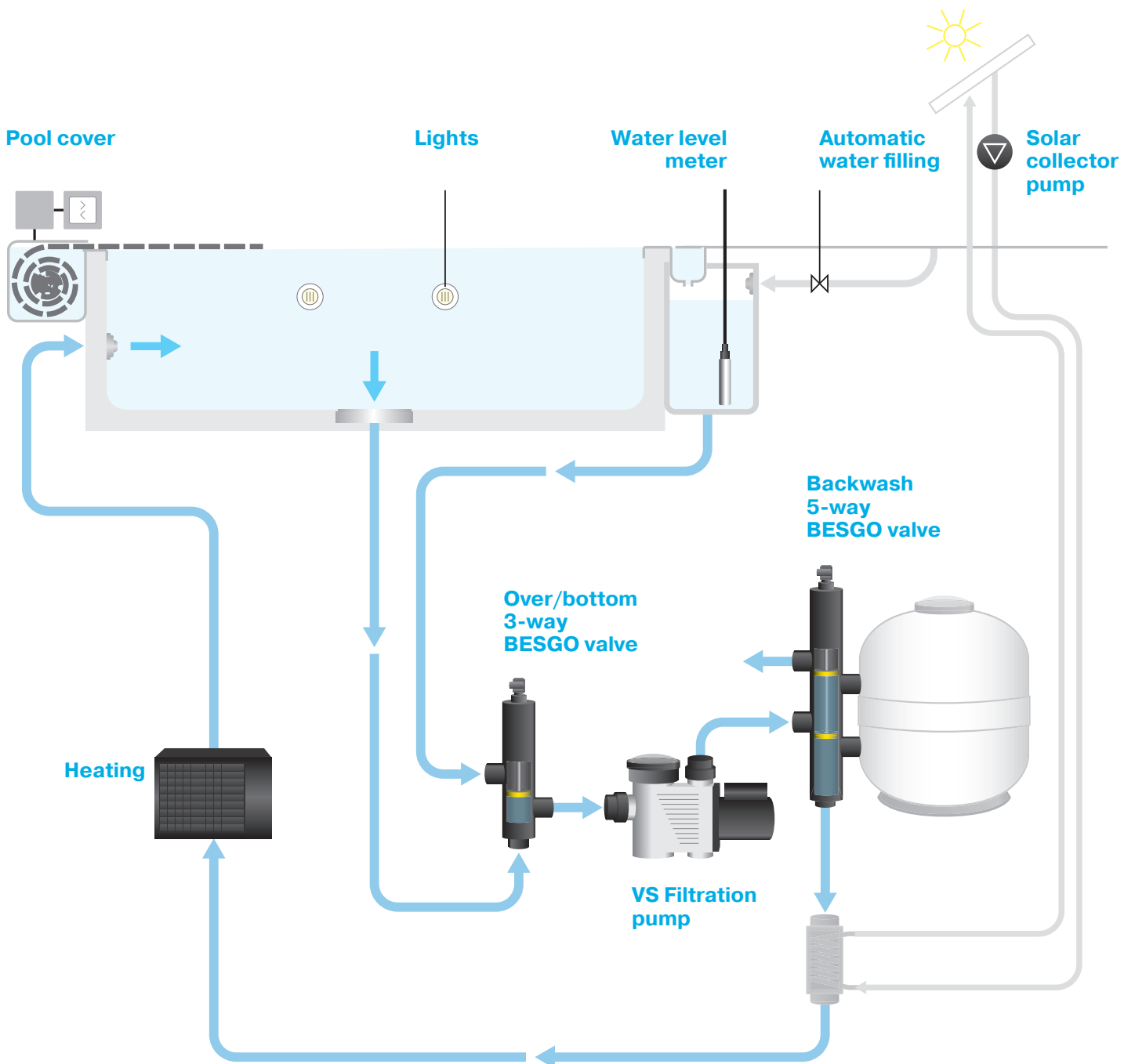Pressure-type level sensor #12086

ASIN Pool

The network controller.

The ASIN Pool network controller is designed to control and set all the pool technology elements:

- **Lights or pool cover**
- **Automatic water filling**
- **Solar collector pump**

- **Heating**
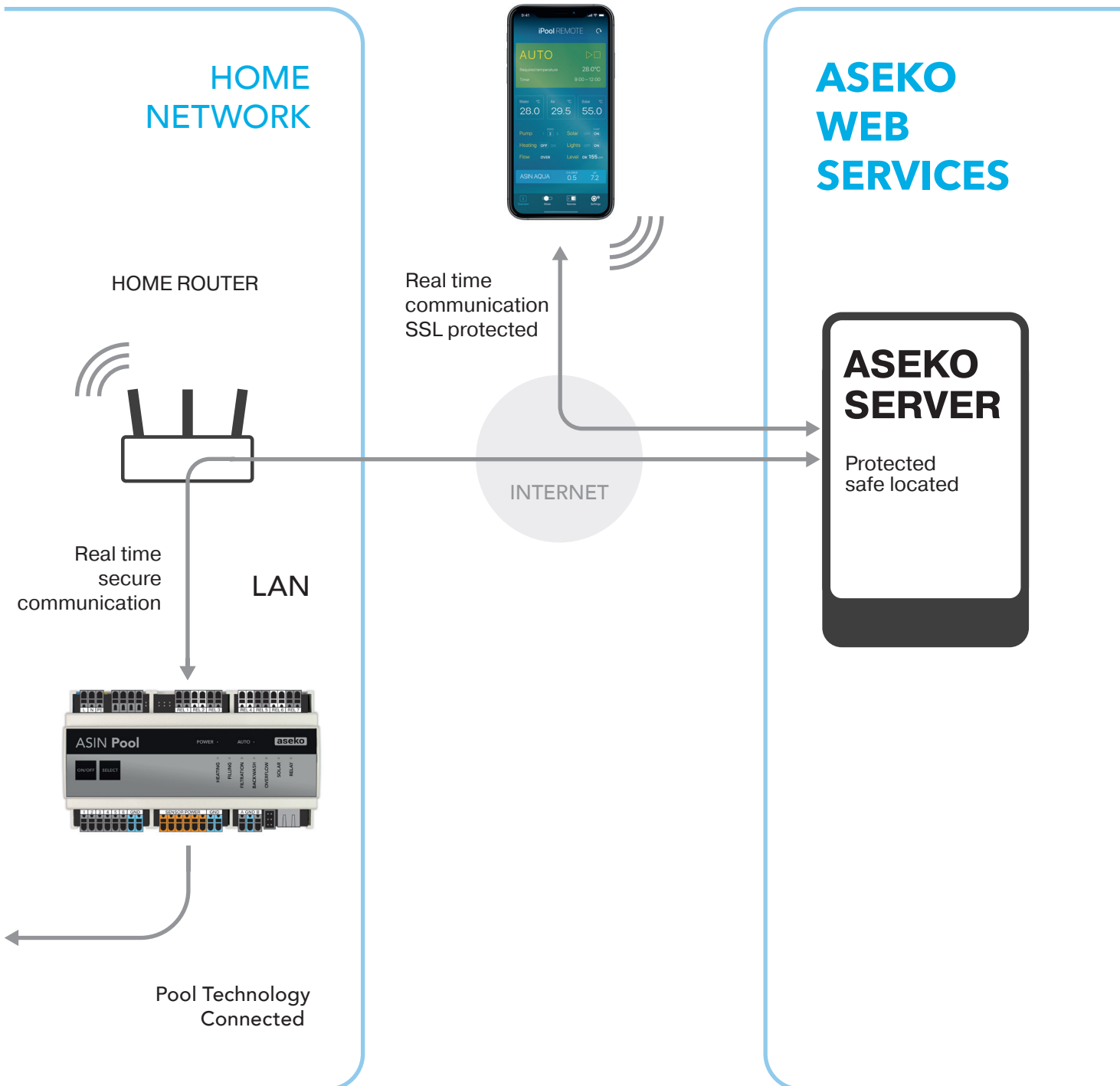- **Flow control over/bottom**
- **Automatic filter backwash**

The ASIN Pool can be set by user friendly application. The ASIN Pool is intended for the DIN rail mounting directly into the switchboard.
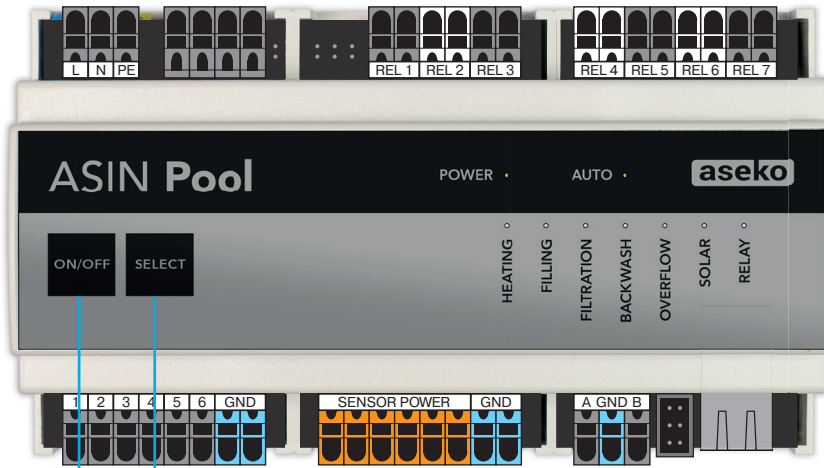
Pool cover

Lights

Water level meter

Automatic water filling

Solar collector pump

Backwash 5-way BESGO valve

Over/bottom 3-way BESGO valve

Heating

VS Filtration pump

iPool **REMOTE**
app for
iOS and Android

HOME
NETWORK

ASEKO
WEB
SERVICES

HOME ROUTER

Real time
communication
SSL protected

ASEKO
SERVER

Protected
safe located

Real time
secure
communication

LAN

INTERNET

ASIN Pool

Pool Technology
Connected

Manual Operation

For easier installation and necessary events...

POWER:
On/Off

AUTO:
automatic mode / manual mode (testing)

Relay status indication:
ON/OFF

Turning on/off

Relay selection

Initial start

ASIN Pool will turn to standard operating mode with factory settings after the initial connection of power supply. After repeated switching on the unit continue in the original mode preset by user.

LED Power shines – signalize connected power supply
LED Auto shines – ASIN Pool works in standard operating mode with automatic control.

Manual mode

It is possible to use buttons at the front panel of ASIN Pool for simple control in testing operation when necessary to check function of connected components or in extreme cases when there is no available connection to ASIN Pool by application.

Press the button ON/OFF for switching the ASIN Pool off or on. ASIN Pool switches all outputs off and after switching on will continue in the preset mode.

Press the SELECT button to enter the manual mode. ASIN Pool will switch off all outputs and blue LED at the (HEATING) output start blinking. You can switch on or off the selected output by pressing ON/OFF button and move to next output by pressing SELECT. This way you can switch on or off all outputs. There will not blink any blue LED (after 8 press of SELECT button) and you can leave ASIN Pool or in manual mode or by pressing ON/OFF button return to automatic mode.

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Operation via iPool REMOTE

iPool **REMOTE**
app for
iOS and Android

Mode selection

OFF	All STOP	
ON	Nonstop filtration	

PARTY — Nonostop filtration, heating ON.
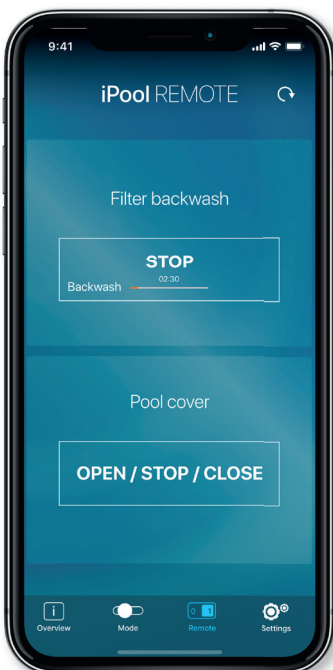Mode for using the pool at the time of your wild party.

AUTO — Automatic mode, heating ON
Mode for common fully automatic operation of swimming pool technology.

ECO — Saving mode, heating OFF
Mode for economical operation of the pool in your absence.

WINTER — Antifreeze mode
Mode for winter pool operation when not in use.

Direct control

Filter backwash

Pool cover

or

Lights

iPool REMOTE Installation

Install the iPool REMOTE application from **App Store** on iOS device or **Google play** for Android.

For iOS

For Android
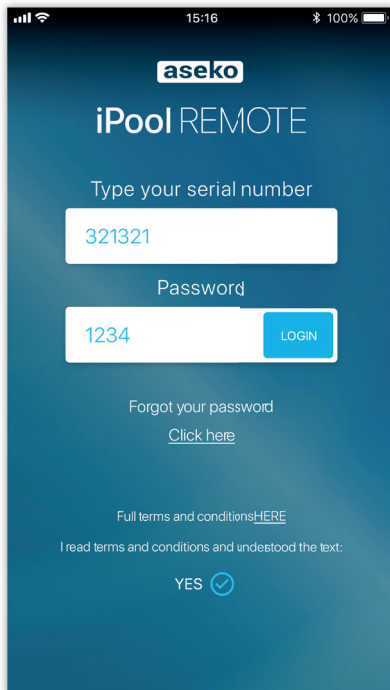
First time login

Prior to the first connection to the ASIN Pool, confirm your acceptance of "ASIN Pool Terms and Conditions".

Type your serial number

Enter the serial number of your ASIN Pool.

First time login

Please, be sure tu use **1234** as a **password** for first time login.

Create new password

Type your serial number

Enter the serial number of your ASIN Pool.

Recovery email

Provide a valid email address to which you have access. E-mail address serves to remind the forgotten password.

Create new password

When signing in for the first time, choose a password you will use. ASIN Pool will remember the password. From this moment use the serial number and this password to log in to your ASIN Pool.

Installation time zone

Set the time zone of the ASIN Pool location.

Forgotten password

To recover a forgotten password, click for reminding the password.

Overview

The screen provides all the important information about the current status of your pool and the connected components controlled by ASIN Pool.

iPool REMOTE

Reload data

AUTO
Required temperature   28.0°C
Timer   9:00 – 12:00

Actual operation mode

Water °C   Air °C   Solar °C
28.0   29.5   55.0

Water temperature, air temperature, solar panel temperature

Pump SPEED LOW MED HIGH   Solar   PUMP OFF ON
Heating OFF ON   Lights OFF ON
Flow   OVER   Level OK 155 cm

Pool technology status

ASIN AQUA   CHLORINE 0.5   pH 7.2

ASIN AQUA paired device status

Overview   Mode   Remote   Settings

Overview   **Remote**

Mode   **Settings**

EN   aseko

Mode selection

The screen serves to switch between operation modes of your pool controlled via ASIN Pool.
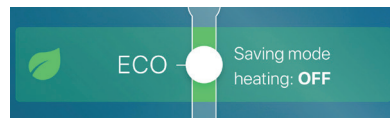

**The slider serves to control your pool operation modes.**

This mode switches the circulating pump on speed MEDIUM and heating to the required temperature.This mode has no time functions.

This mode is intended for normal pool operation. Heating to your required temperature. At four time intervals per day it is possible to set the filter pump's power and set whether an overflow or bottom drain will be used.

All off, only in case of solar panels reach the preset temperature the filter pump and solar circulation pump are switched on.
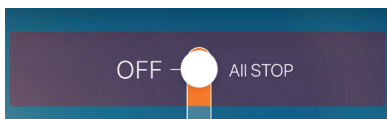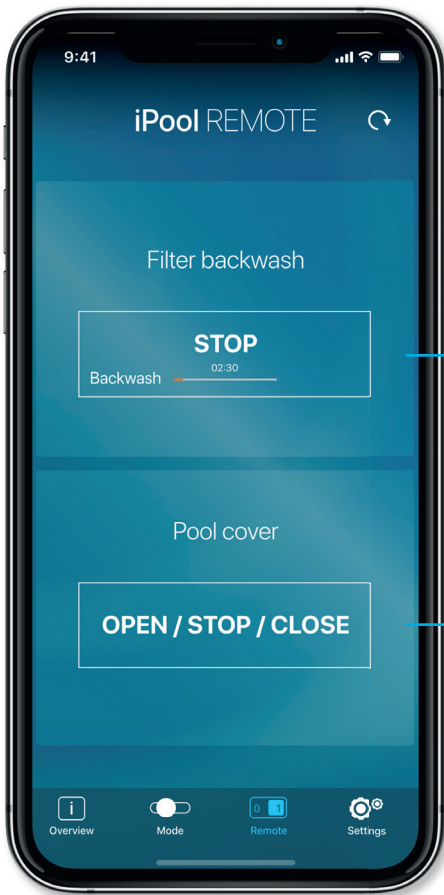
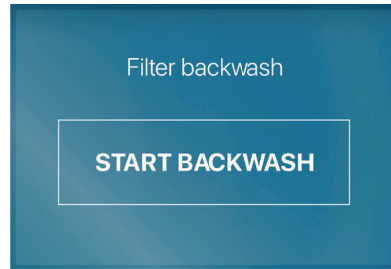This mode is designed to operate the swimming pool in your absence or when you want to operate economically.
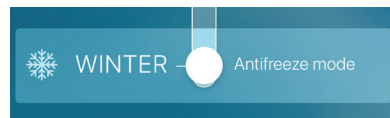
To activate this function, an outdoor thermometer must be installed*.
The circulation pump switches on for 15 minutes. After 15 minutes the water temperature is measured. If the water temperature is below 4°C the heating and circulation pump is switched on. When this temperature is reached, the circulation pump is switched off. Further control of the water temperature and switching on of the circulation pump will happen in 6 hours.

Filter pump is set on MEDIUM speed. This mode has no time functions. The water flow is set to OVER, and heating is set to OFF.
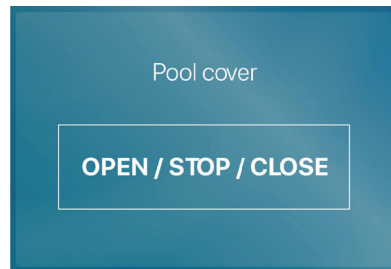
*) If outdoor temperature is below 0°C

Direct control

iPool REMOTE

Filter backwash

STOP

Backwash   02:30

Switches on the filter backwash process

Filter backwash

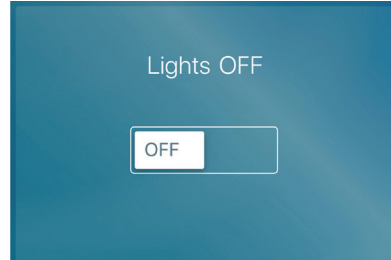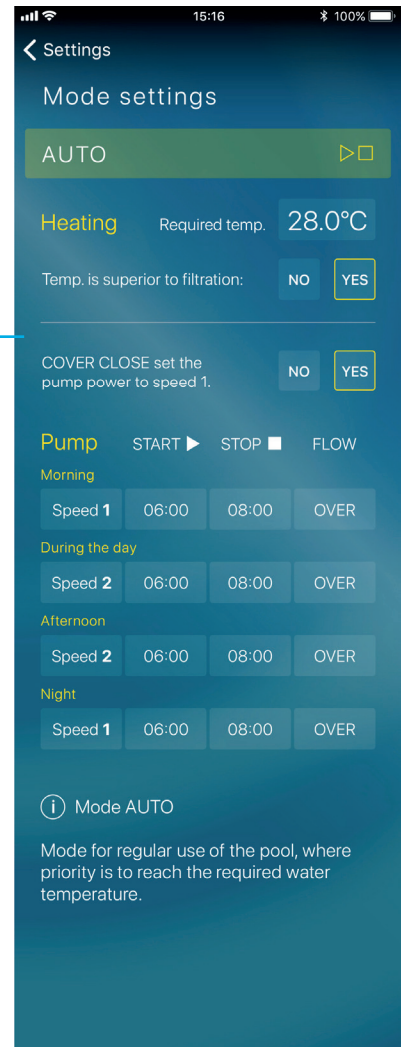**START BACKWASH**

Pool cover

OPEN / STOP / CLOSE

Open / close cover

Pool cover

OPEN / STOP / CLOSE

or

Turns the lights on/off

Lights OFF

OFF

Overview   Mode   Remote   Settings
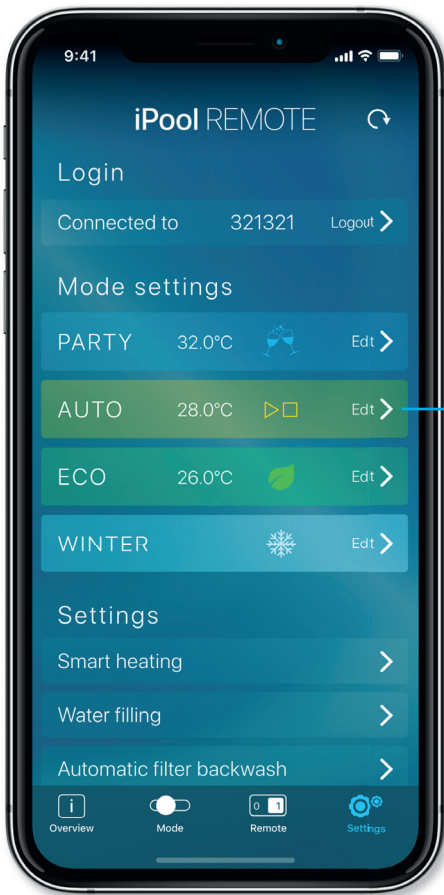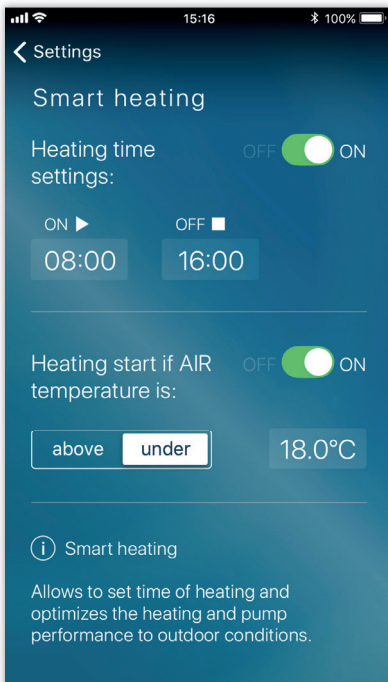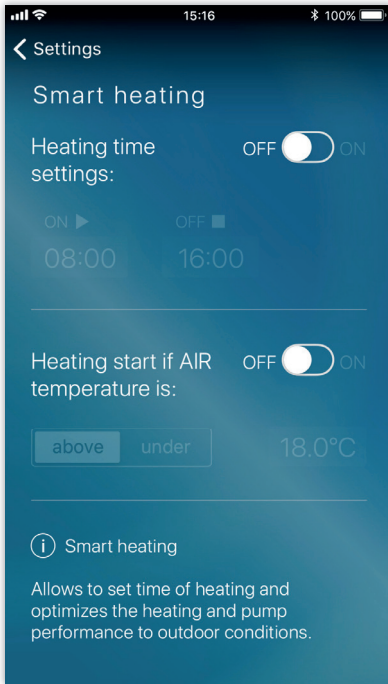
Settings

The screen serves to set the ASIN Pool and parameters of each mode including the filtration timer.
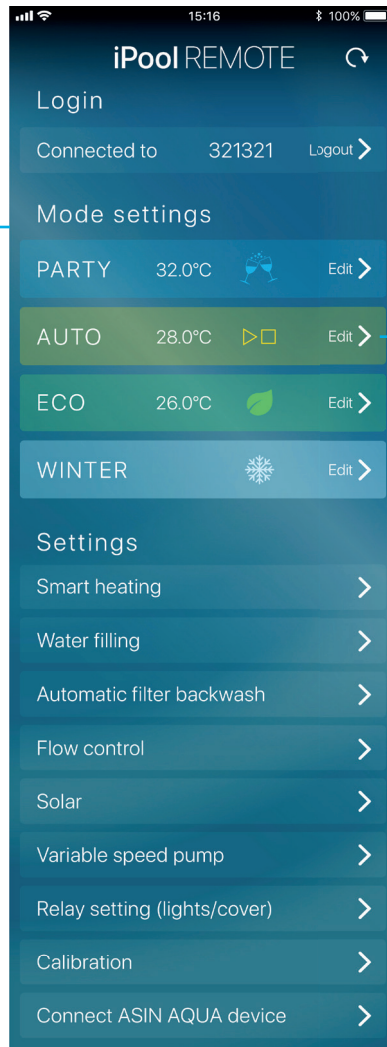
Smart heating

Heating at Time

This function allows to set time of heating operation. This is particularly useful for switching on the heat pumps that have higher efficiency during the day time when outdoor temperature is higher.

Heating at air Temperature

This function allow you to customize the pool heating and achieve the highest possible efficiency of the heat pump.

"I heat just when the outdoor temperature is higher than ......, or I heat just till the outdoor temperature reaches ...."

The high-accuracy electronic thermometer is used for water temperature measurement. It should be installed to the inlet pipe comming from the pool. Never install it downstream of the heat exchanger. Significant distortion of temperature would occur.

When temperature drops below the required value, the relay No. 1 switches on the heat source (heat pump, electric heating, gas boiler circulating pump).

Temperature Control Takes Priority over Filtration Control

If you select the temperature control to take priority over the filtration timer, heating as well as the circulating pump will be in operation even after the adjusted time of filtering. The circulation pump will stop after the required temperature is achieved. It will restart at next preset period of the timer.

Watter filling
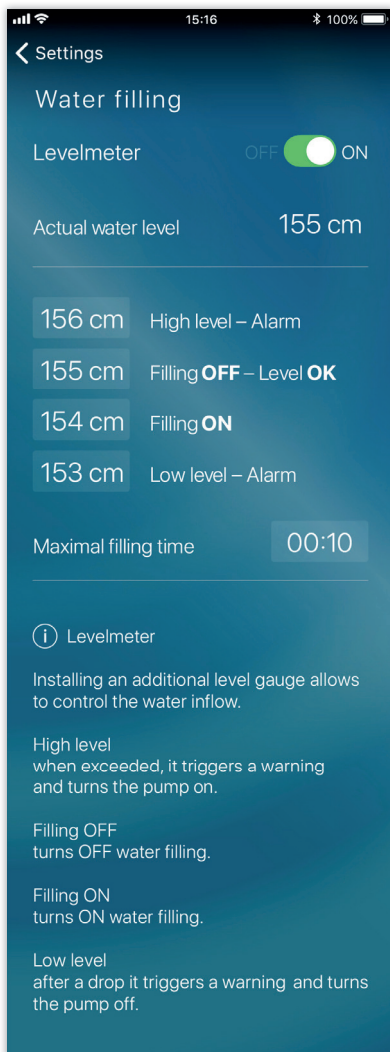
The water level is measured by the level sensor. This allows very easy installation by inserting the sensor into the balance tank or skimmer. Water Level is controlled at four adjustable levels that are easily entered in centimetres.

The level sensor cable must not be broken anywhere in order to prevent the balancing tube that is a part of the cable from being clogged.

High level
Too much water in the pool

When this level is reached:

1. The circulating pump starts

2. If the automatic filter backwash is enabled, one filter backwash cycle starts.

Level OK

Filling stops

Filling ON
Level at which pool filling starts

Filling starts after one minute during which the level is permanently below this value in order to prevent oscillating

Low level

The circulating pump as well as heating will be disabled

Maximum filling time

The maximum filling time acts as protection for case of any failure of the level measuring. This function will switch off the pool filling after the adjusted time has elapsed regardless of a level sensor signal.

ASIN AQUA should be switched off during the filling.
This functionis implemented in ASIN Pool Eletrical Box.
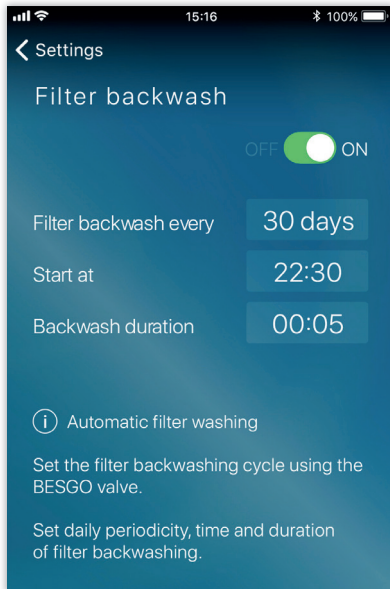
Automatic Filter Backwash

The automatic backwash function ensures the filter backwash on a regular basis in the preset intervals. To enable this function is necessary to use the automatic 5-way BESGO valve. Its moving controlled by the relay switching on/off. When the relay switches on, the BESGO valve is activated and moved to the required position by the action of pressure water or air. See the BESGO manual.

ASIN AQUA should be switched off during the backwash.

Flow control
Overflow/Bottom

To use this function, it is necessary to install the 3-way BESGO switching valve. It is possible to make a decision whether water shall circulate through the overflow or the bottom drainage.
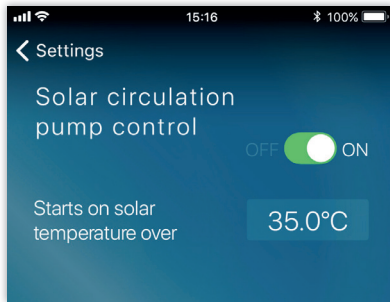
Solar

The ASIN Pool allows control of the solar heating. To enable this function it is necessary to install the outdoor thermometer to the solar collector. At the preset temperature of the solar collector, e.g. 40°C, solar system circulating pump as well as the filter pump will start on. This start takes absolute priority over other settings in order to prevent the solar collector from being overheated.

Variable speed Pump Control

The ASIN Pool with the additional VS Pump module enable to control the power of circulating pumps with a variable drive. Power can be selected at preset periods in individual modes. In case of backwashing, the pump is running at speed HIGH. Individual speeds LOW, MEDIUM, HIGH are adjusted directly on the pump according to the respective pump manual. In case of use of pool cover the pump can slow down to speed LOW if pool cover is closed.
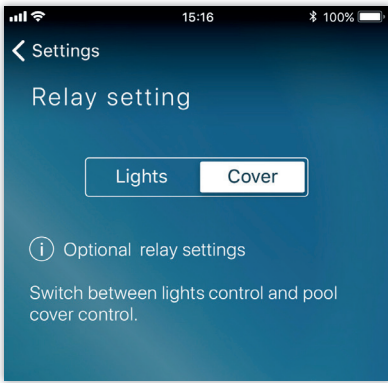
Relay settings (lights/cover)

Optional relay settings, switch between lights control and pool cover control.
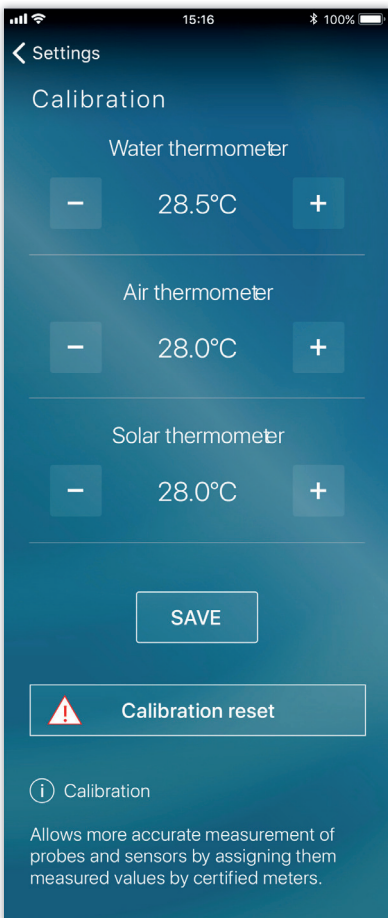
Calibration

Allows more accurate measurement of probes and sensors by assigning them measured values by certified meters.

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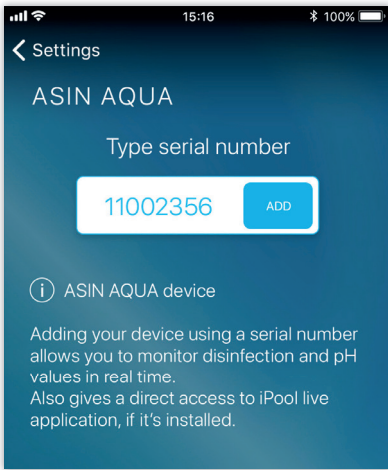
Connect ASIN AQUA device

Adding your device using a serial number allows you to monitor disinfection and pH values in real time.

Also gives a direct access to iPool live application, if it's installed.
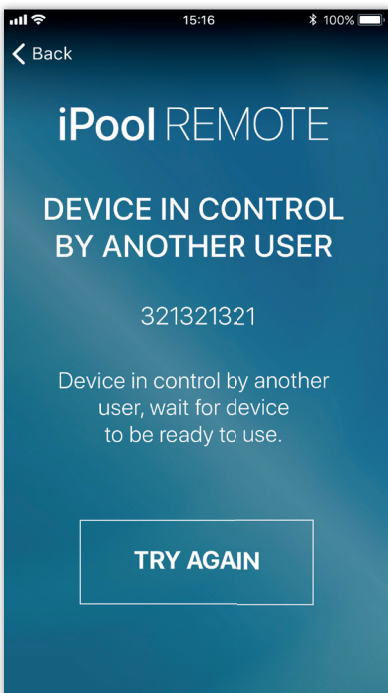
Device in control by another user

Device in control by another user, wait for device to be ready to use.
Time delay is 30 s.

Warning messages

High level – start FILTER BACKWASH

High level runs one backwash procedure. If the level does not drop, an error message is displayed.
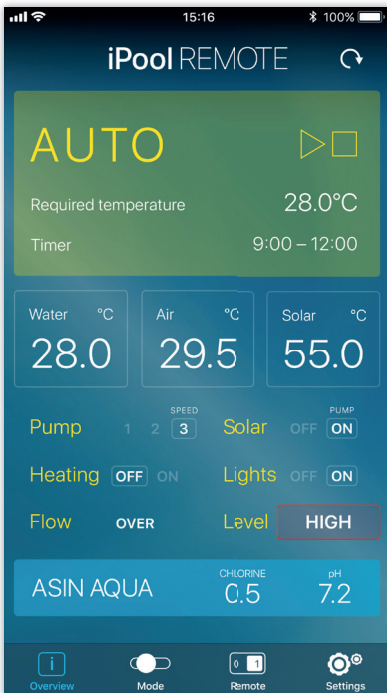
High level – ALARM

To lower the level, run the filter backwash. Pump ON.

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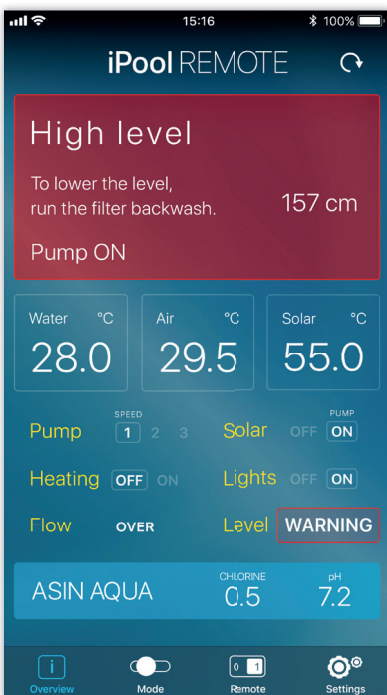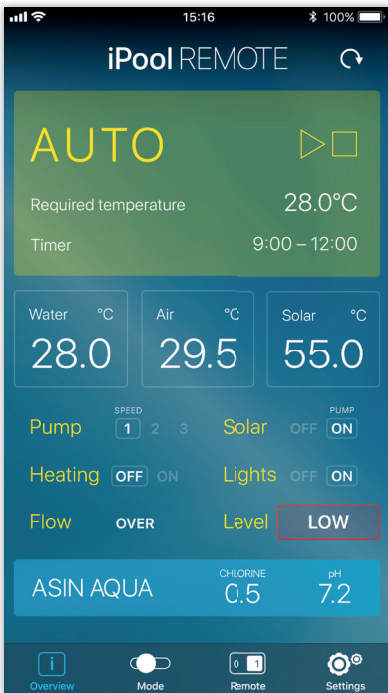
Low level

Start water filling.
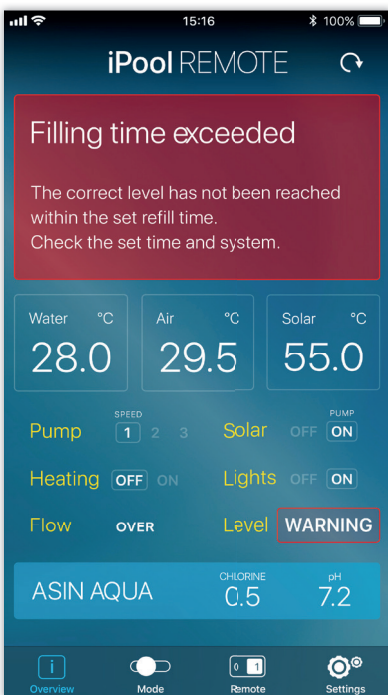
Filling time exceeded

The correct level has not been reached within the set refill time.

Check the set time and system.
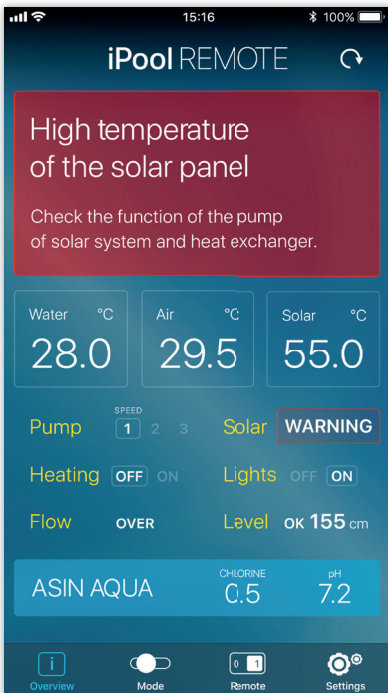
High temperature of the solar panel

Check the function of the pump of solar system and heat exchanger.
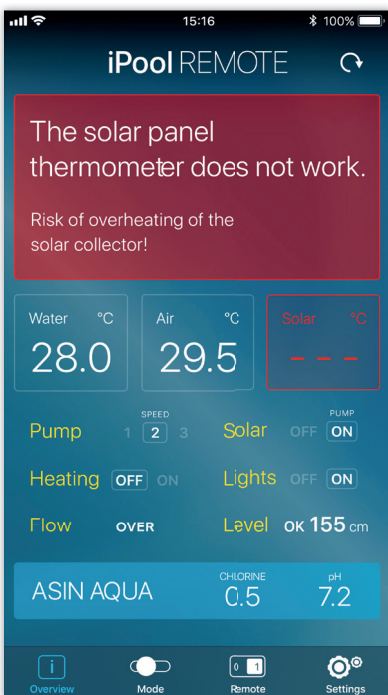
The solar panel thermometer does not work

Risk of overheating of the solar collector!
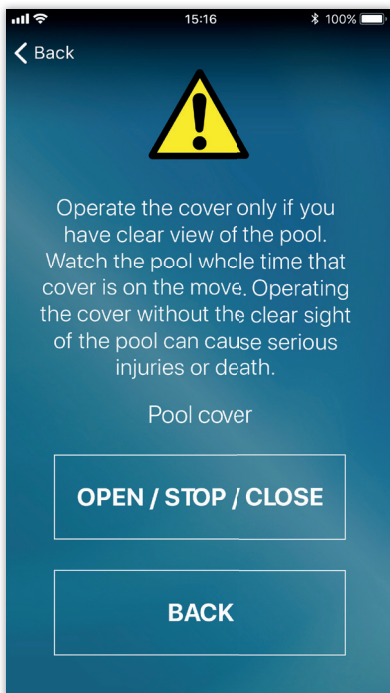
Pool cover

Operate the cover only if you have clear view of the pool. Watch the pool whole time that cover is on the move. Operating the cover without the clear sight of the pool can cause serious injuries or death.

Installation

All connections must be made only when the units is disconnected from power supply!

Wiring of relay outputs may be realized by wire with maximum 2,5 mm^2. Maximum relay load is 230 V AC / 1A.

Power supply cable by CYKY 2x1,5 should be equipped by single pole circuit breaker 6A/250V, characteristic B signed as ASIN Pool.

Do not forget to add suitable RCD, for example 16A(B)/30mA.

Cover panel cutout

46 mm

160 mm

The height of the cover panel above the DIN rail

45 – 52 mm

DIN rail 35 x 7,5 mm
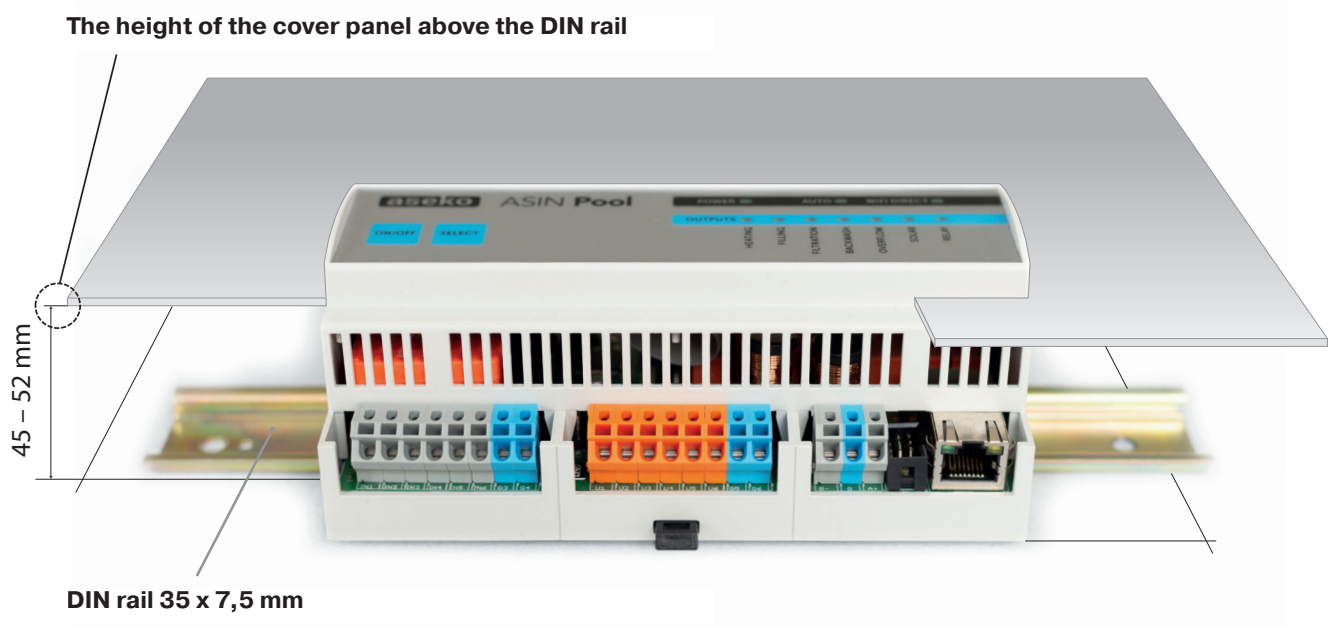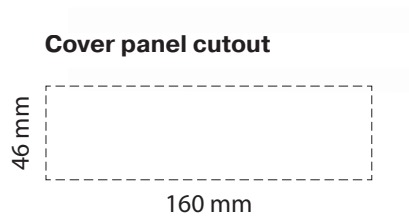
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Maintenance

ASIN Pool system and connected sensors does not require any special maintenance. Protect all vent outlets against overlapping.

Servis

In case of need any additional info or service, contact the manufacturer:

ASEKO, spol. s r.o.
Vídeňská 340, Vestec u Prahy, 252 50
IČ: 40766471, DIČ: CZ40766471
Telefon: +420 244 912 210, +420 603 500 940
E-mail: aseko@aseko.cz

Sensors Connection

Water thermometer

Air thermometer

Water level meter

Solar collector thermometer

1
2
3
4
5
6
GND

ON/OFF

SELECT

SENSOR POWER

GND

A GND B

HEATING

FILLING

FILTRATION

BACKWASH

OVERFLOW

SOLAR

RELAY

LAN
(network/internet)

Connection
of ASIN Pool
and VS Pump
module

LOW

MEDIUM

HIGH

STOP

POOL COVER CONTROLLER

5   GND

Dont have
a COVER
Short-connect
5+**GND** by a wire

Relay ON
cover is
OPEN

Relay OFF
cover is
CLOSED

L N PE

RCD

T

ASIN Pool

POWER

AUTO

aseko

L
N
PE

REL 1
REL 2
REL 3

REL 4
REL 5
REL 6
REL 7

Power Supply

1

HEATING

REL 1

L is logic signal

2

HEATING

REL 1

Independent logic signal

Filling solenoid

Filtration pump relay

M 230 Vac   Filtration pump

Besgo (filter backwash)

Besgo (Bottom / Overflow)

M 230 Vac   Solar collector pump

1

LIGHTS

REL 7

230 ~ / 24 =

Lights

2

POOL COVER

REL 7

2 s pulse

Pool Cover Control box

VS Module

GND
n1
n2
n3
STOP

Potential free contacts for logic signal, 24 V.

Variable speed pump

ASIN Pool Electrical Box

Preinstaled in Electrical Box.
ASIN Pool + VS Module.

Relay light/cover

Relay circulation pump

CB 6A/230V

CB 10A/230V circulation pump

ASIN Pool

VS Module

Power input RCD 16A/230V

LAN

ON/OFF relay for ASIN AQUA
Power Supply

ON/OFF relay for
BACKWASH or FILLING

1 LIGHTS

230 / 24 =

+ ‖‖‖ ‖‖‖ ‖‖‖
− Lights

or

2 POOL COVER

2 s pulse → Pool Cover Control box

POWER INPUT

N L

COVER (or)
LIGHTS
PE
N L SOLAR
N L OVERFLOW
N L BACKWASH
N L FILTRATION
N L FILLING

POT. FREE RELAY
RELAY OUTPUTS 230 VAC

HEATING
POT. FREE RELAY

ASIN AQUA POWER SUPPLY
PE N L

M 230 Vac — Solar collector pump

⊠ Besgo (bottom/overflow)

⊠ Besgo (filter backwash)

⊠ Filling solenoid

ASIN AQUA (power supply)

1 HEATING — L is logic signal

2 HEATING — Independent logic signal

Variable speed pump

(FOR SPEED PUMP)
RED STOP
WHITE SPEED 3
GREEN SPEED 2
BROWN SPEED 1
BLACK COMMON
VS PUMP MODULE

COVER OUTPUT
COVER OUTPUT
T SOLAR +
T SOLAR −
T WATER LEVEL +
T WATER LEVEL −
T AIR +
T AIR −
T WATER +
T WATER −
MEASUREMENT INPUTS

POOL COVER CONTROLLER

Relay OFF cover is CLOSED

Relay ON cover is OPEN

Dont have a COVER Short-connect **5**+**GND** by a wire

GND — 5

Solar collector thermometer

Water level meter

Air thermometer

Water level meter

aseko