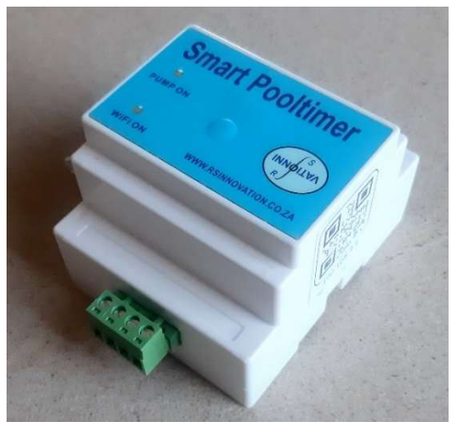
Smart Pool Timer instructions



Congratulations on your purchase of the most advanced Pool Timer in the world

And here's the reason why every pool owner in SA should need one

This device is super easy to program from your smart phone, WITHOUT the need for an internet connection as some other products require. You will program the timer once and forget about your new acquisition. It will simply be doing its job, and that's to keep your pool pump running for a programmed hours per day, and thus keeping your pool clean, regardless of load shedding.

The device has backup power to keep the time of day (and its program) for up to 7 days without power. This is achieved NOT with a battery which would eventually need replacing, but by a super capacitor. A super capacitor has virtually an indefinite life time.

If you are replacing an old-fashioned mechanical timer, you will know that when the electricity goes off (the so-called load-shedding in South Africa), the timer loses its time of the day. I'm sure if you experience daily load shedding, you will give up setting the time of day.

If you are replacing an electronic timer, you will know that when the electricity goes off, you will actually lose pumping hours. To compensate for load shedding, you would actually have to program the timer for almost double the required pumping time. On extra-ordinary days when there's no load shedding, you will be wasting electricity.

An average pool requires about 6hrs of pumping time (a more detailed guide is given at the end of this leaflet). That relates to an average electricity bill of R350/month (June 2023). The device can thus pay for itself in about 6 months.

Instructions for programming your timer

Press and hold the WiFi button on the keypad for more than 3s and pool timer will become a WiFi hub for the next 10min. The BLUE led will come ON.

Establish a WiFi connection to the timer from your phone (typically, press and hold the WiFi button on your phone). A device 'POOL-TMR' will appear. Allow the phone to connect. The BLUE led will start flashing ON/OFF. Then scan the QR code below

If your QR code scanner doesn't take you automatically to the timer's web page, enter 192.168.4.1 in the address bar of your browser.

You should then see the following page



First, press the 'SYNC time' button. This set the time of day of the timer to the same time as your phone. Then set the 'PUMP hours' and 'START time'.

The prohibited hours are there in the event your pool pump is close to a bedroom and you don't want noise during the night. If you are not using intervals, that's it, just press the 'SAVE setup' button and you're done! The timer will automatically disable the WiFi when the connection is terminated or if more than 10min lapsed without a connection being established.

Why would I need intervals anyway?

One example is if you have solar heating tubes on your roof, you save electricity by switching the pump ON and OFF whilst maximising the energy harvested from the heating panel.

Another example is if you have loads of tree leaves falling into the pool but you don't want the pump to be ON the whole time.



If you select multiple intervals, a table similar like this be displayed

The ON time is automatically calculated by dividing the min ON hours by the number of intervals. When changing the interval OFF time, the Smart Timer will automatically recalculate the time of day ON and OFF times in the table. It's that easy! Traditional electronic timers require you to set each ON and OFF time manually. This smart timer saves you time, allowing you to rather enjoy a cocktail by your pool.

When you are happy with the program, just press the 'SAVE setup' button and you're done.

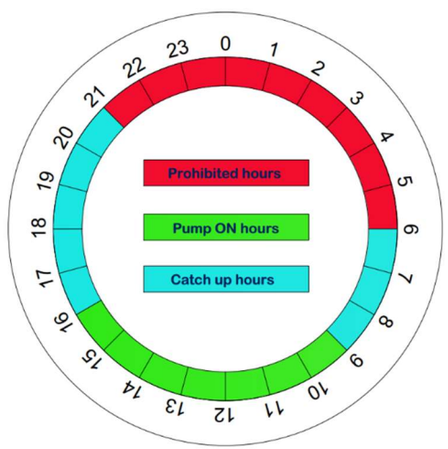
HISTORY

The timer keeps a history of how many hours it actually pumped for the last 7 days. This is useful to confirm proper operation. There is a point when load shedding is so bad, it's impossible for the timer to catch up. In that case, the prohibited hours need to be reduced.

ON/OFF button

A short press on the front panel button switches the pump ON or OFF. This button will typically be used when cleaning the pool filter. The white LED will come on.

How is the timer able to catch up for load shedding hours?



This illustration shows the 24hrs in a pool pump's daily life and highlights the available hours for catching up in blue.

Smart Pool timer specifications

AC supply voltage:	110V to 250V, 50 or 60Hz
Supply current:	25mA (6W)
Memory retention:	7 days without power
Relay output:	5A max inductive load (1.5HP motor)
	15A non-inductive load

EMC compliance for WiFi unit

FCC-15C, EN300-328, EN301-489-1

EMC compliance for Power supply

EN-IEC-61000-3, EN55032, EN55035

Electrical safety for power supply

EN62368-1

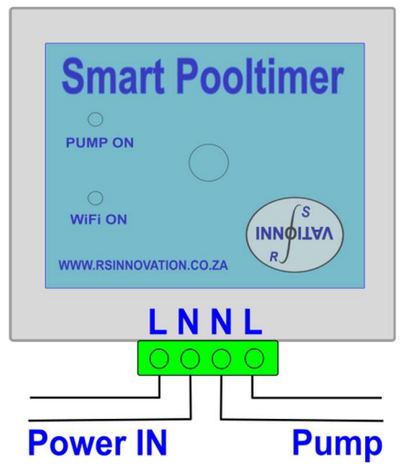
Product designed and manufactured in

South Africa, Patent pending

Installation

SA law requires a qualified electrician to install anything in a Distribution Board. Installation is straightforward and can be done in 10 minutes!

Use a minimum of 1.5mm2 wire.



Guidelines to required pool pumping hours

It is recommended to have 2 water volume circulations per day in summer, depending on the size of your pump, the following pump times are recommended.

pump size (W)	450	600	750	1100
flow rate (m3/hr)	11.0	13.3	15.0	17.5

pool size (m3)	required pumping hours in summer			
20	3.6	3.0	2.7	2.3
30	5.5	4.5	4.0	3.4
40	7.3	6.0	5.3	4.6
50	9.1	7.5	6.7	5.7
60	10.9	9.0	8.0	6.9

You could half the pumping times in winter. Since even a smart timer cannot establish when it is winter or summer, this is a manual process which will take you 2 minutes of your time and save you a significant amount of money.

Please bear in mind this table are guidelines only. Your specific pool may need different pumping times depending on your area, debris, height difference between pump and pool, wear and tear of the impeller in your pump etc.