

Overview

In some situation it may be desired or required to initialise the eWON.

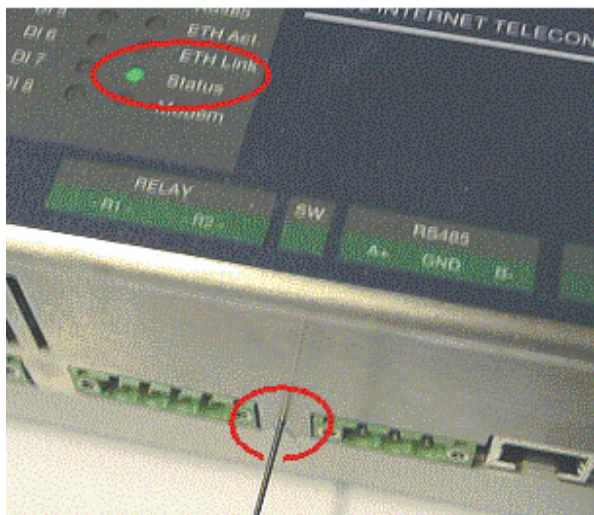
The eWON has a non volatile memory that is used to store configurations and acquired data. Non volatile information is basically divided into 2 groups:

- Communication configuration
- The rest of the non volatile data (file system, tag config, user defined web site, etc.)

The reset button is located between the RELAYS connector and the RS485 connector, it is indicated by the "SW" label on the front of the eWON. A very small hole is located in the box, you will need a thin tool like a paper clip to push the button.

Reset sequence

The button must be pressed while the eWON is powered up. The button must be maintained until correct initialisation level has been reached (see below).



There are 2 initialisation levels:

- the first level (and the more common) will force a format of the eWON.
- the second level will reset the eWON in a state corresponding to the "out of the box" configuration. By doing this you will also perform a thorough self test of the eWON.

When the eWON boots with the SW switch pressed, after 4 seconds, the "Status" led will start

blinking at a 1 flash per second rate. As soon as the led starts blinking at that rate, release the switch. The Format request will be set.

The blinking will continue during 15 seconds, so there is no need to hurry, but you must release the switch before the 15 seconds elapse.

If the SW switch is maintained for more than 15 seconds after blinking starts, the "Status" led will stop blinking and will become "Solid Green", at that moment the "Out of the box reset" is registered, the SW switch can be released and all the data of the eWON will be erased, including its communication, IP address,... parameters.

eWONCfg.exe will be needed to define your eWON working IP address.

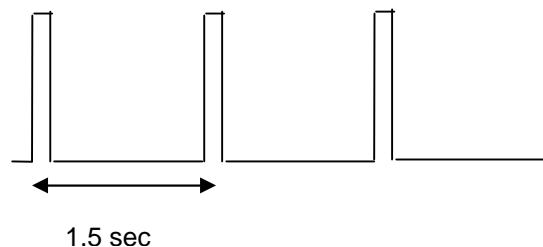
Remark: if you have wait to long and the Status led becomes "solid green" while you only needed to format the eWON, the only solution is to keep the SW switch pressed and remove the eWON power, this will avoid entering the "Full Erase" procedure.

Second level init. diagnostic

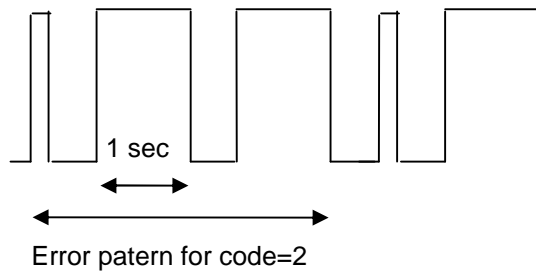
When the second level init is requested, the eWON will also perform a self test. When the initialisation ends, the test result is displayed via the "Status" led.

If the test is successful, the following pattern will be displayed on the status led:

The status led will flash for 200msec every 1.5 seconds. The pattern is repeated indefinitely until the eWON is manually rebooted.



If an error is detected during the test, the Status led will show the error code with the following pattern:



This example shows the case where error code is 2. The pattern is repeated indefinitely until the eWON is manually rebooted.

The pattern starts with a short blink of 200msec indicating the pattern start, then N blinks, each during 1 second are displayed. Then the pattern is repeated, etc.

The number of 1 second blinks is defined by the type of error detected:

Number of blinks	Error meaning
1	RAM Test error
2	Flash erase error
3	Flash write error
4	Real Time Clock error
5	Flash identification failed
6	IO CPU not responding

Entering level 2 init without request

The eWON may enter level 2 test without request in the following case:

- If the IO CPU is not responding at boot time

In that special case you may detect the typical led blinking of the level 2 init, without having requested that mode.

What to do in case of error?

If an error is detected during the self test, run the test again to confirm the result. If test error persists, then contact the factory for return and repair procedure.

Important remark

When performing a level 2 self test, it is important to let the test run until the end, if you stop the test before the end, the flash memory may contain

random data that may cause unexpected operation of the eWON when it will start.

For this reason, a self test must always be continued until the Status led displays the test result.

In case if throuble you can perform the level 2 init again to return to a normal situation.