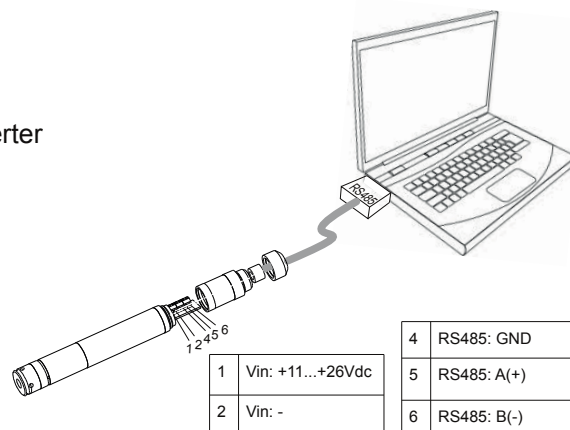


PC COMMUNICATION THROUGH Microsoft HyperTerminal

It is necessary to connect an RS232-RS485 or USB- RS485 converter between PC and the sensor.

Select the right COM port in your PC
Set up the new HyperTerminal session:

Baud rate: 9600
Data bits: 8
Parity: None
Stop bits: 1
Hardware handshaking: No



Reading function: "ITCL"

Current reading of the sensor

Write **ITCL** (character time out: 1seg) in the HyperTerminal window and the sensor will answer with the current reading and state.

```
State:      1
Punts:     65337
nA:        1240
ppm (x.xx): 142
Alarma:    0
mA(xx.x):  116
N.Buf:     204
dl_r:      0
dl_w:      204
```

State: 1=reading; 2=Cleaning; 3,4=post-cleaning
Punts: -----
nA: Chlorine reading in nA
ppm: Chlorine reading in ppm x100
Alarma: 0= no alarm; 1=alarm
mA: Chlorine reading in mA x10 (4-20mA)
N.Buf: reading in buffer
dl_r: pointer position in buffer
dl_w: last writed position in buffer

Calibration function: "ITCU"

Allow the user to change the calibration, the relation nA/ppm.

The relation mA/ppm is not allowed to be changed, and this is: 0ppm = 4mA; 3.00ppm = 20mA

Install the sensor in the sensor holder and run the water flow through the sensor.

Write **ITCU** (character time out: 1seg) in the HyperTerminal window and the sensor will answer with the current value in nA:

```
--- Function USER ---
Clor Nppm: XXX (X.XX)
<ENT> or <ESC>
...2025
...2030
...2032
...2030
```

Once the reading is stable take a sample of the water which is going through the sensor and check the ppm value by means a DPD test.

Introduce this value x100 into the HyperTerminal and press <ENT>.

(Ex.: when DPD test shows 1.45ppm, the value to introduce is 145).

The first point is calibrated

Press <ESC> in case you don't want to change the current calibration of the 0.00 ppm point

If you want to change the 0.00 ppm point, drive the water through an active carbon filter to eliminate all the chlorine in water, before getting in contact with the sensor.

```
Clor 0ppm:
<ENT> or <ESC>
...18
...15
...14
...14
```

Once the reading is stable press <ENT>.

The 0.00ppm point is calibrated

Once the sensor is calibrated in the HyperTerminal window will appear a report with the new calibration, together with the current firmware release:

```
---Report USER (1.08C)
nA a 0ppm>      14
nA a 3ppm>     4203
nA / ppm>       1401
```

Reading buffer function: "ITCB"

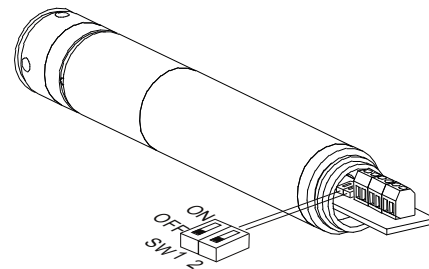
The sensor has an internal data logger with capacity of 2048 readings (FIFO).

The switch SW2 allows the user to select the sampling frequency:

SW2=OFF: the reading is store every 30'(default)

SW2=ON : the reading is store every 5'

Write **ITCB** (character time out: 1seg) in the HyperTerminal window and the sensor will empty the data stored in the data logger and show the data in the HyperTerminal window.



```
---BUFFER
..N: 17
-02 ppm
020 ppm
035 ppm
030 ppm
027 ppm
024 ppm
023 ppm
022 ppm
020 ppm
-01 ppm
-01 ppm
```

N: number of samplings stored in the buffer
xxx: reading in ppm x100 (Ex. " 020 ppm" = 0.20ppm)
-02: power on the sensor
-01: cleaning