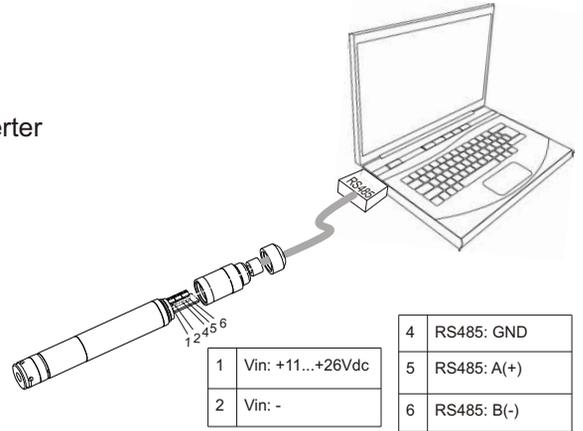


PC COMMUNICATION THROUGH Microsoft HyperTerminal

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 inctroduce 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 trhough 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

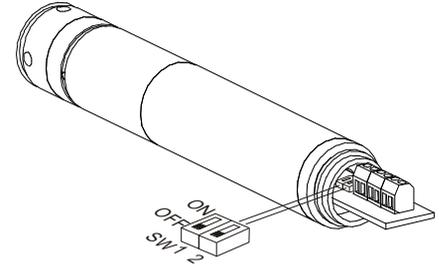
• Reading buffer function: "ITCB"

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