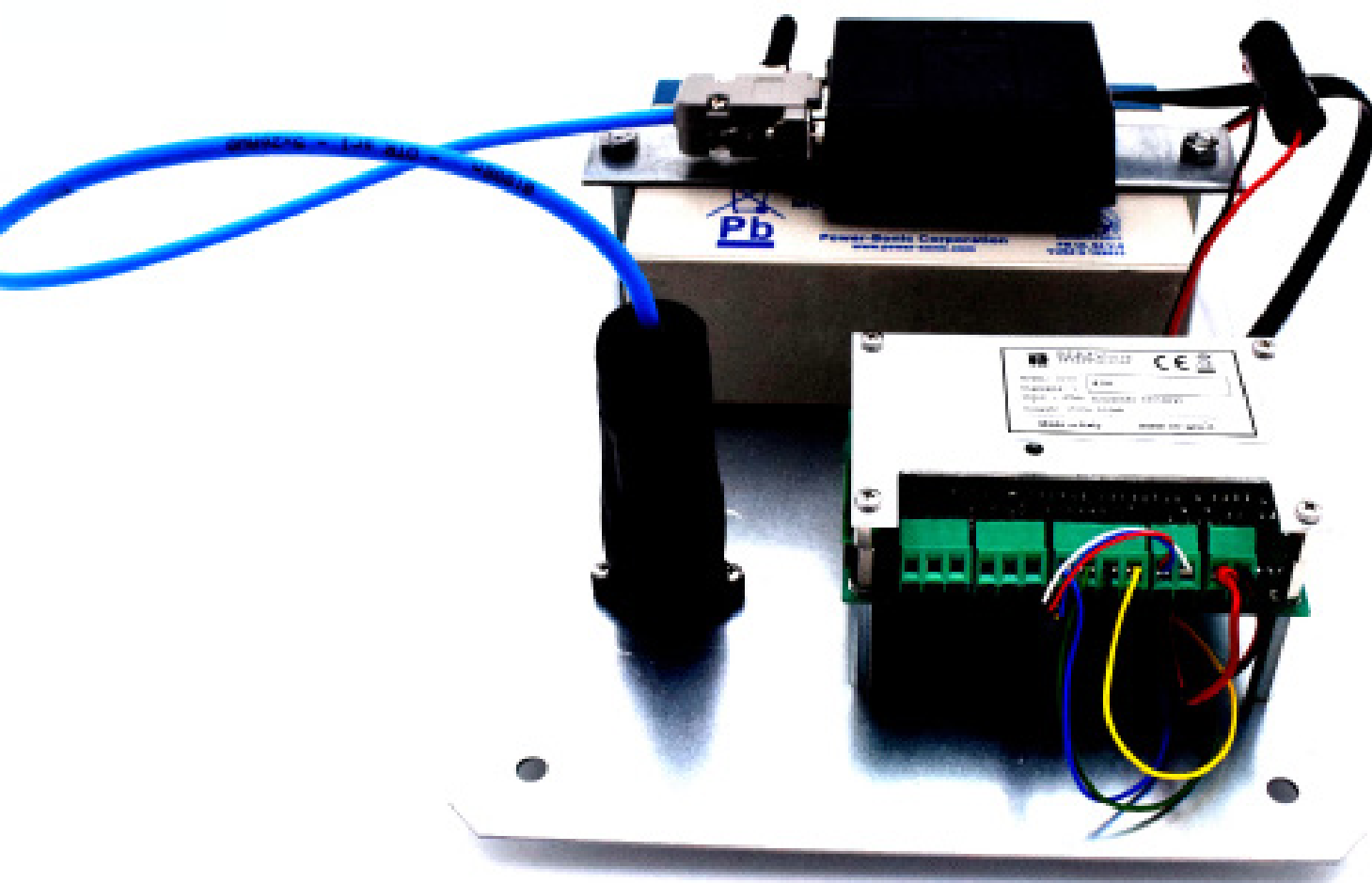




Datalogger D200



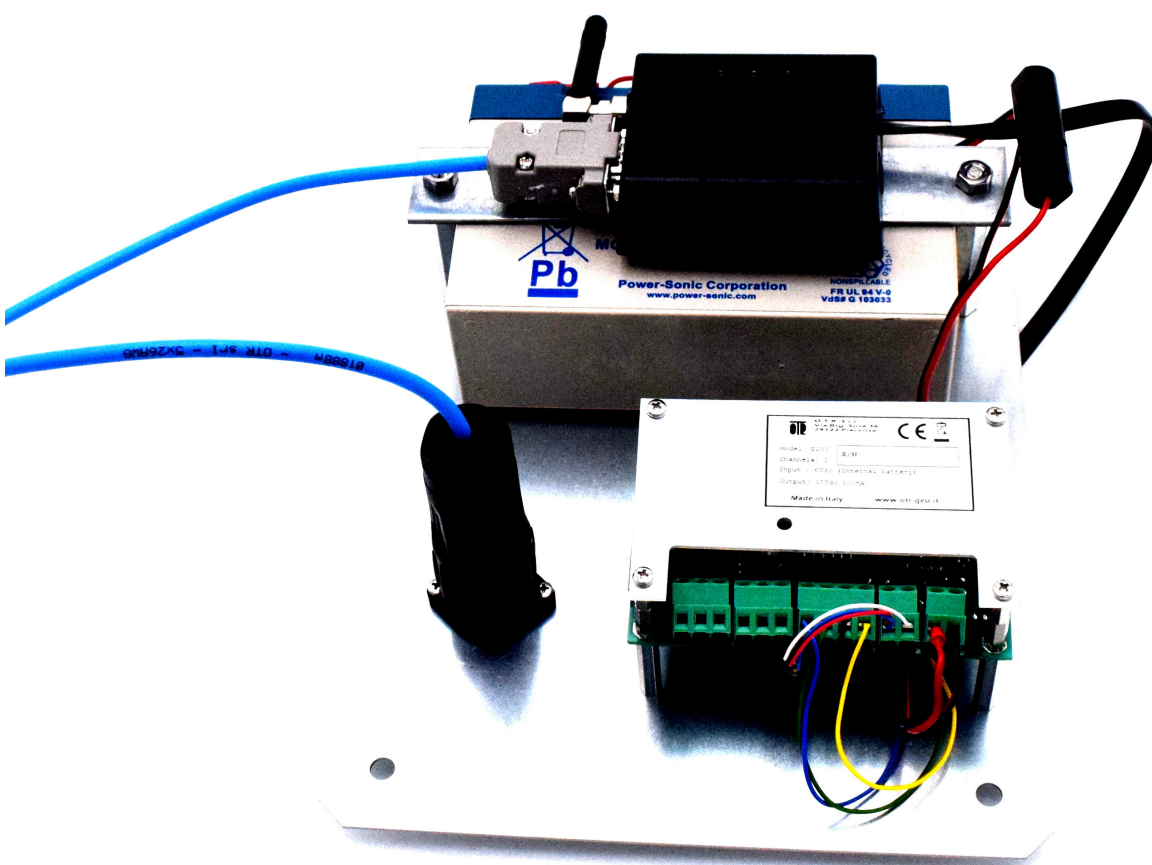
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Datalogger D200



WARNINGS



This instrument must be utilized only for the application it has been designed for, OTR declines all responsibility for any improper use.



Do not put the instrument in flammable liquids or potentially explosive gases.



Do not use the instrument in water where an electric dissipation is in progress.



Do not connect the instrument to the readout unit with wet hands;



Use protective gloves.

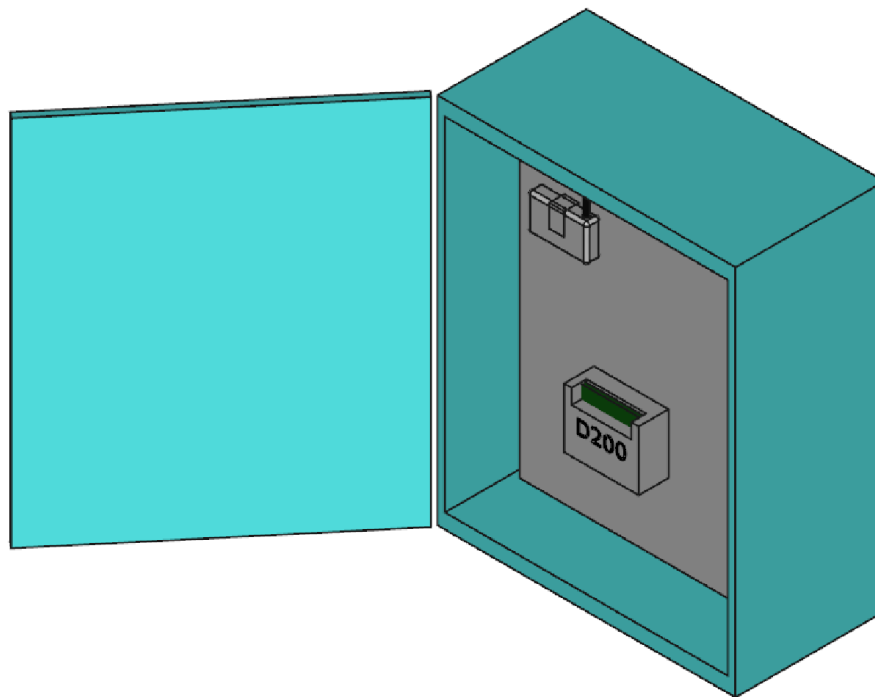
Furthermore

- Do not open the instrument, contact the manufacturer for checks and repairs;
- Keep out of reach of children;
- Clean the instrument and its cable with alcohol or water, do not use acetone or aggressive liquids for plastics or labels;
- Use surge arresters for installations with unprotected cables longer than 30 meters.

Applications

2 channels Dataloggers D200 is used in Geotechnical, Structural and Environmental fields with mV or mA sensor to monitoring:

- Electric piezometers
- Surface Clinometers
- Crack meters and Joint meters
- Temperature sensors
- Conductometers.



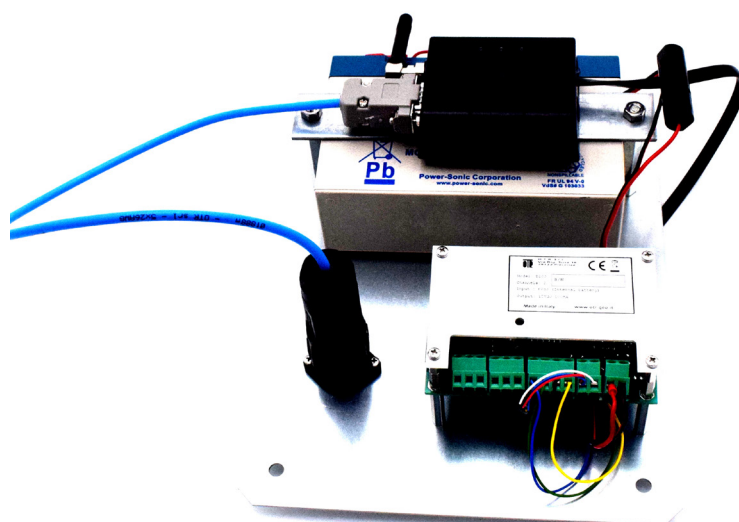
Identification

Every Datalogger is identified:

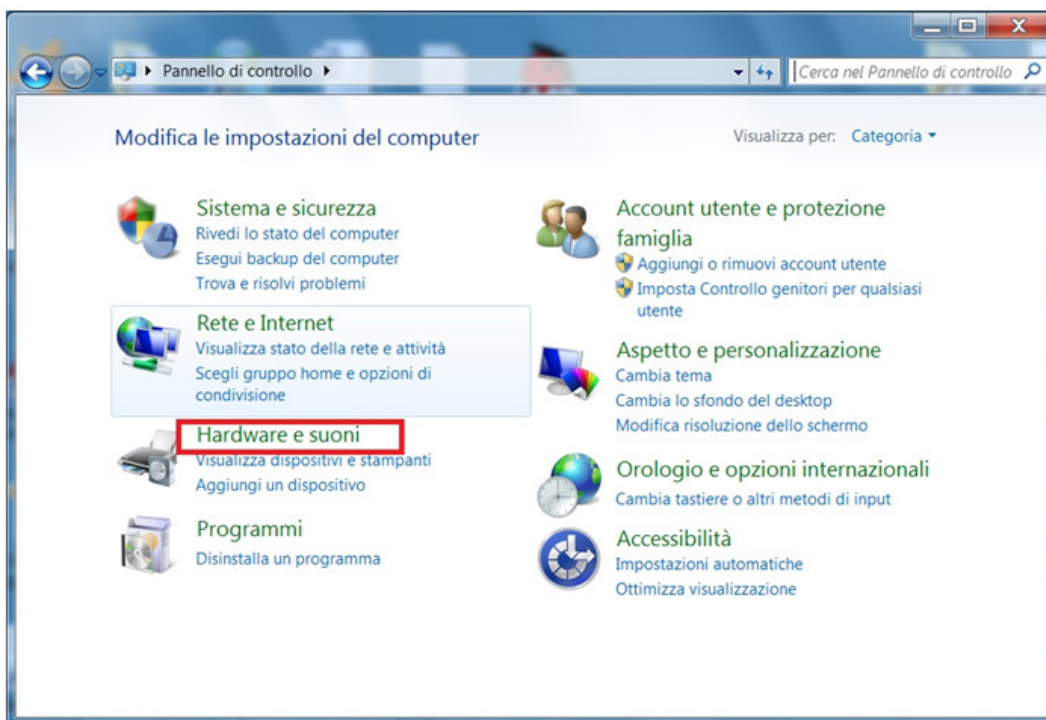
- Serial number associated to calibration report;
- Model;
- Power Supply;
- Input/Output.

Technical Features

Input	0-2V 4-20 mA
Output	+15V , 2.048 Vref
Power Supply	6V dc



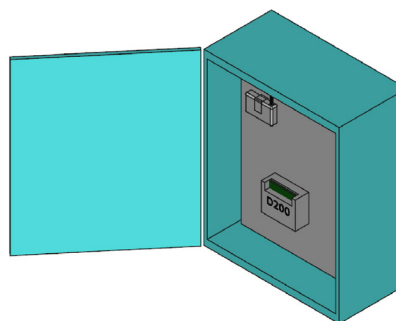
Software's Installation



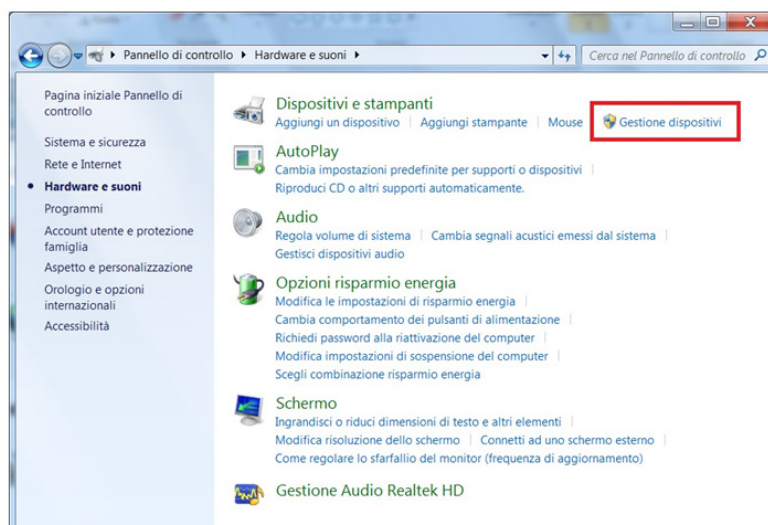
To instal the software:

1. Insert the fuse inside his casing on the red cable which is the one that connects the battery to the charge regulator.
2. Connect the battery. The red cable should be connected to the battery's clamp and the black one should be connected to the black clamp.
3. If the datalogger's LED lights up wait his shutdown. If the LED keeps lightning you mustn't make the datalogger communicate with the PC.
4. Insert USB-Serial adaptor to PC.
5. Wait the device's drivers are installed.

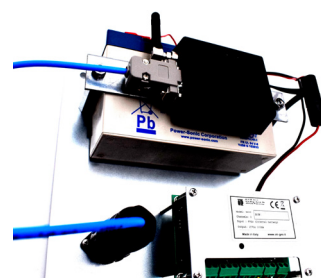
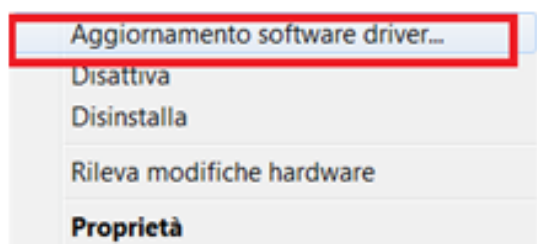
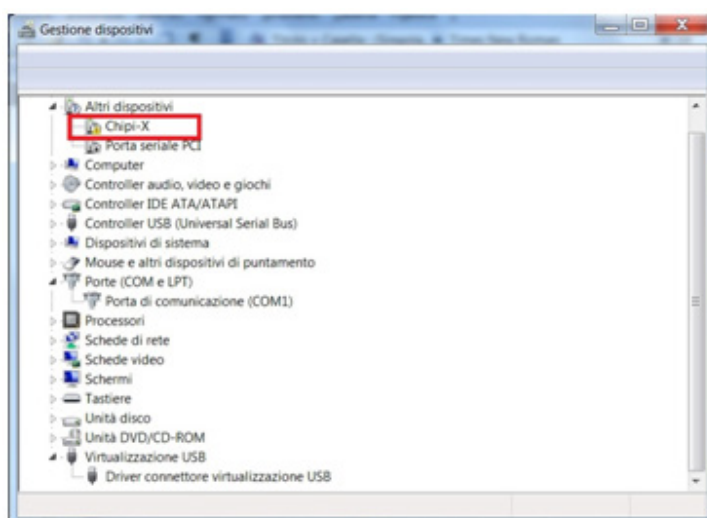
The adaptor needs the installation of a couple of drivers. If the drivers won't be authomatically installed, let's proceed in the following way:



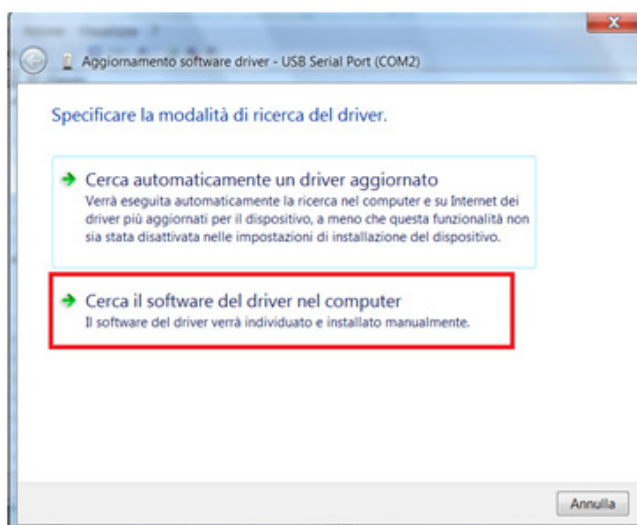
Find the adaptor in "Gestione dispositivi":



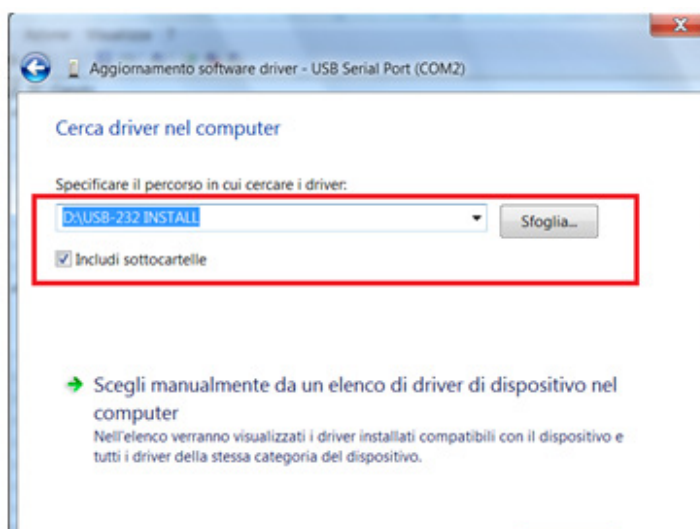
Click with the right key of the mouse and select: "Aggiornamento software driver":



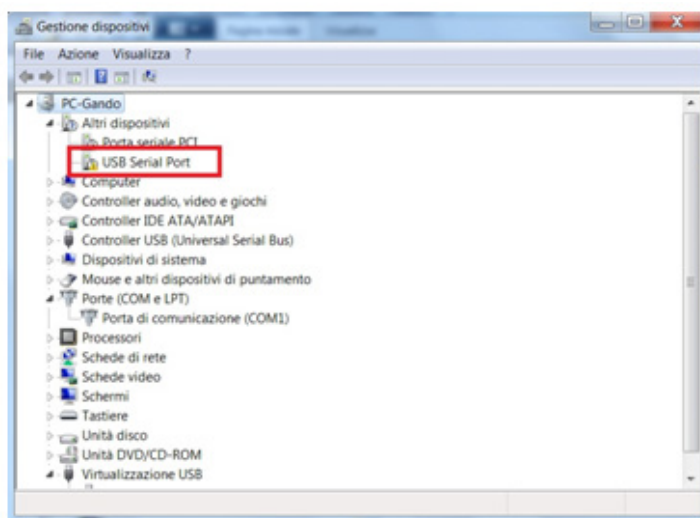
Find computer's driver:



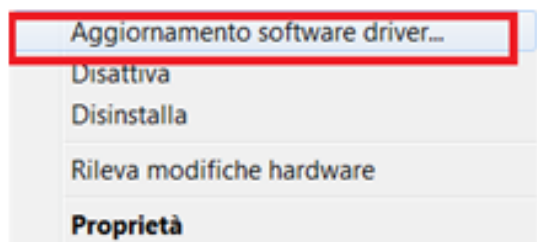
Find "USB-232 INSTALL" Stored in OTR's CD and then Click on "Continua":



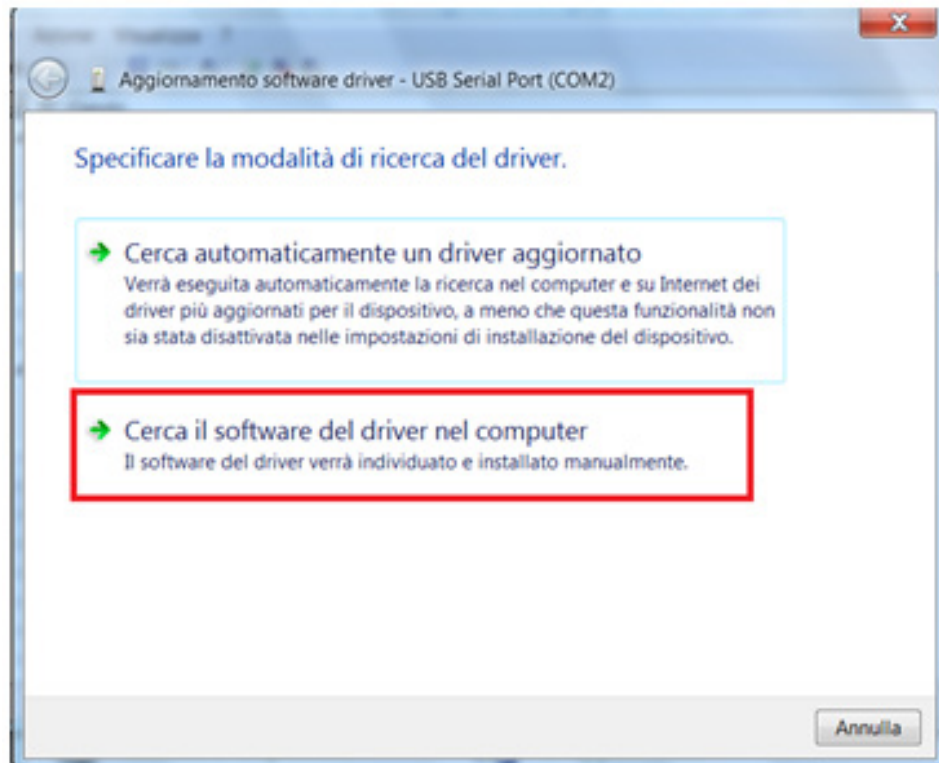
Find "USB-232 INSTALL" stored in OTR's CD and then "Continua":



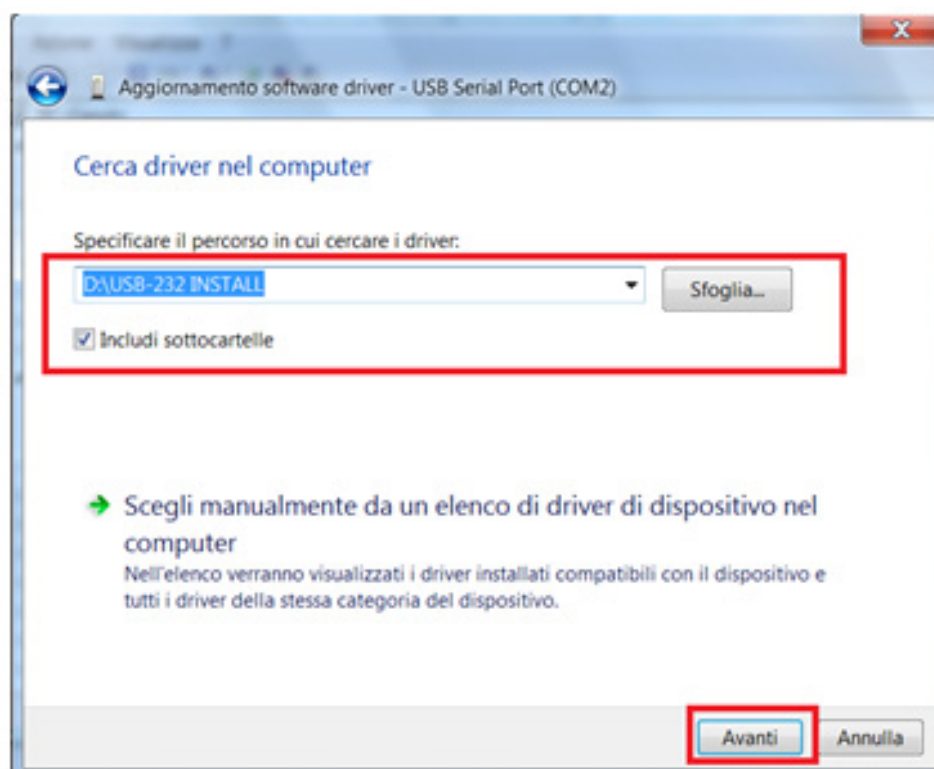
Click with the right mouse's key on: "Aggiornamento software driver"



Search in the computer's driver:



Find again "USB-232 INSTALL" inside CD and click on "Continua":

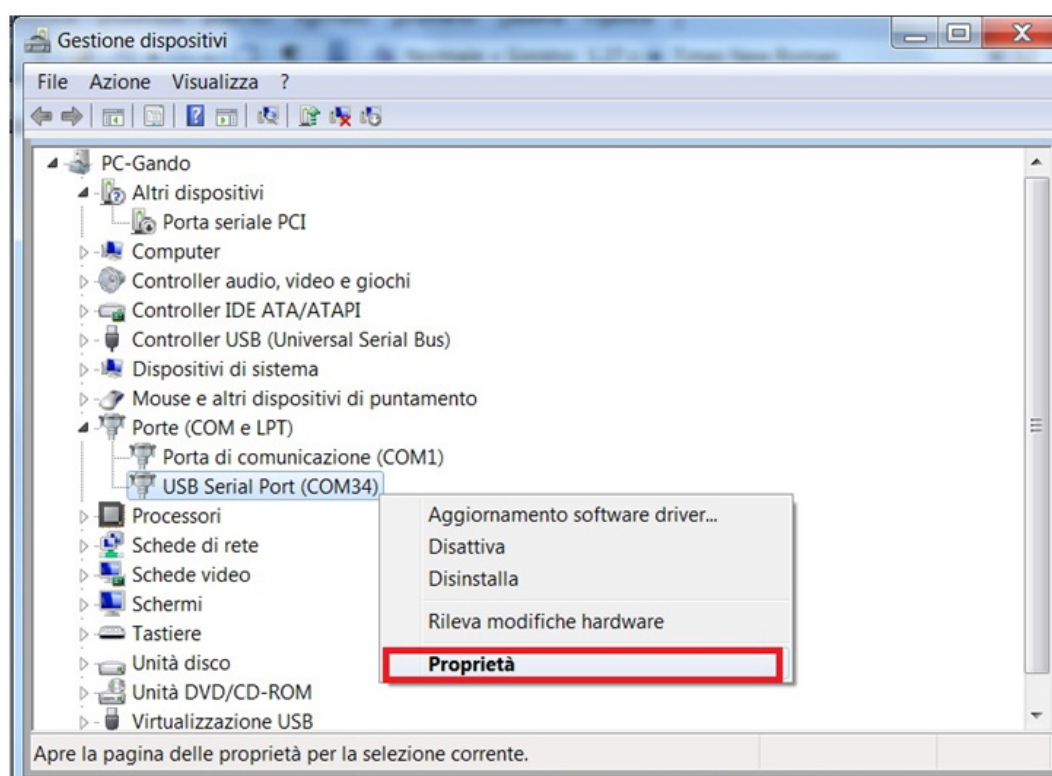


1) Check "Serial Port". Serial-USB adaptor is now installed, but serial port number may be unsuitable with the software.

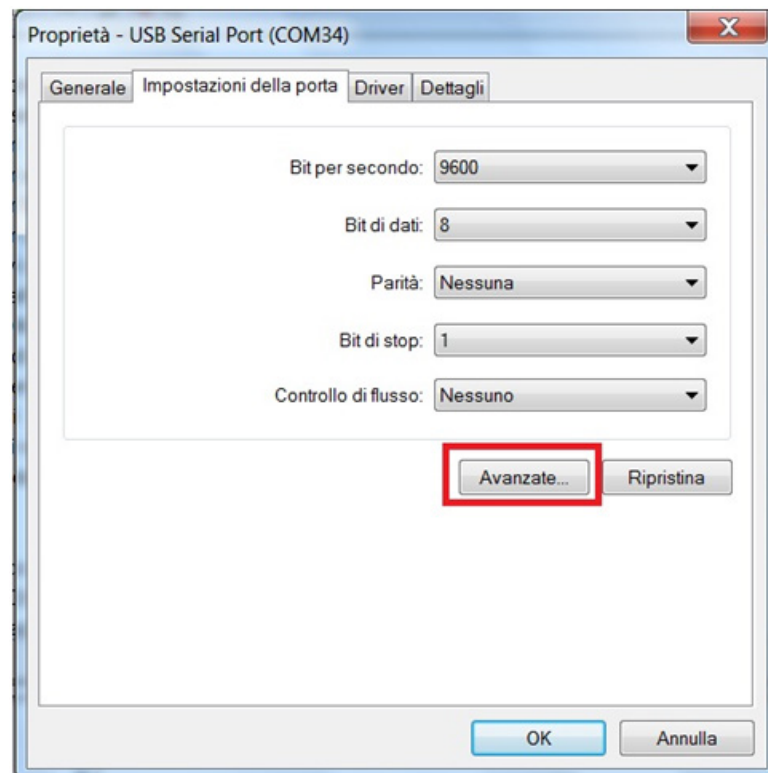
Serial-USB adaptor have to be installed on a COM port between 1 and 8.

Follow the procedure:

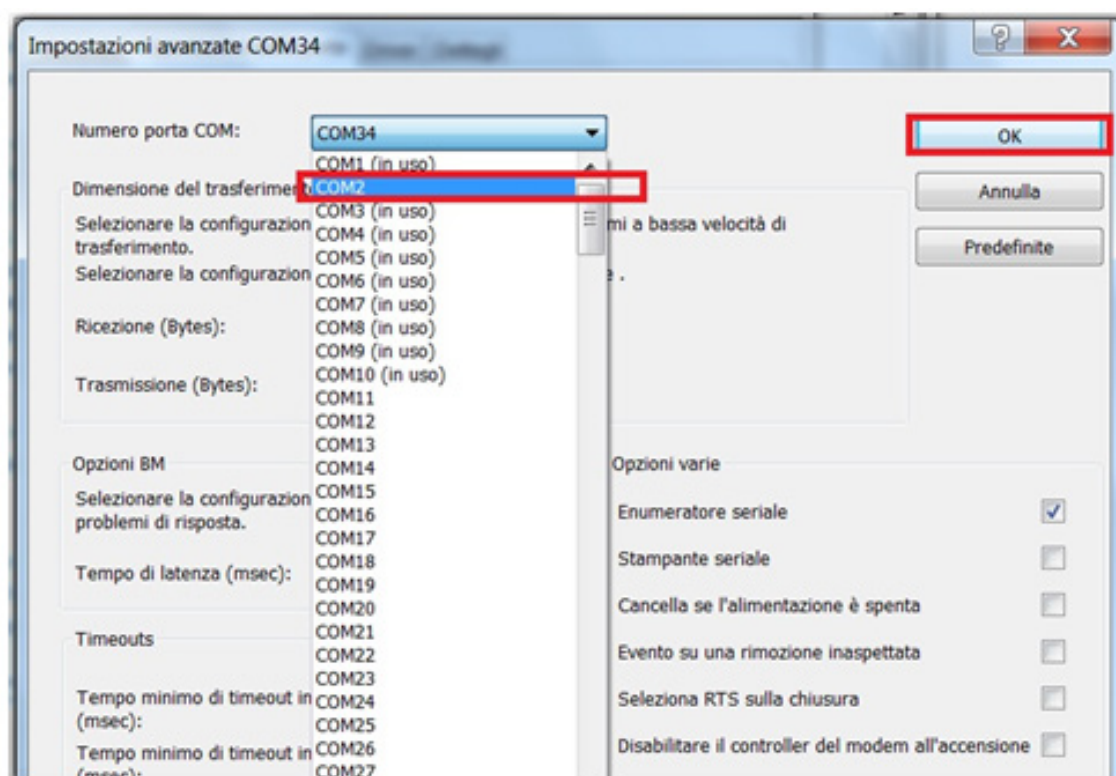
Click with the right key of the mouse on "USB Serial Port" and then "Proprietà":



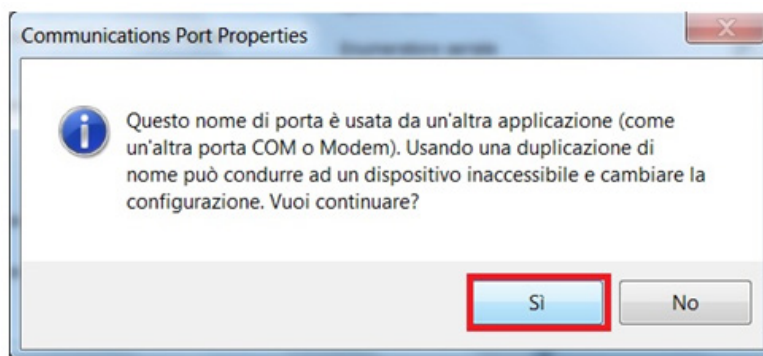
Click on "Avanzate":



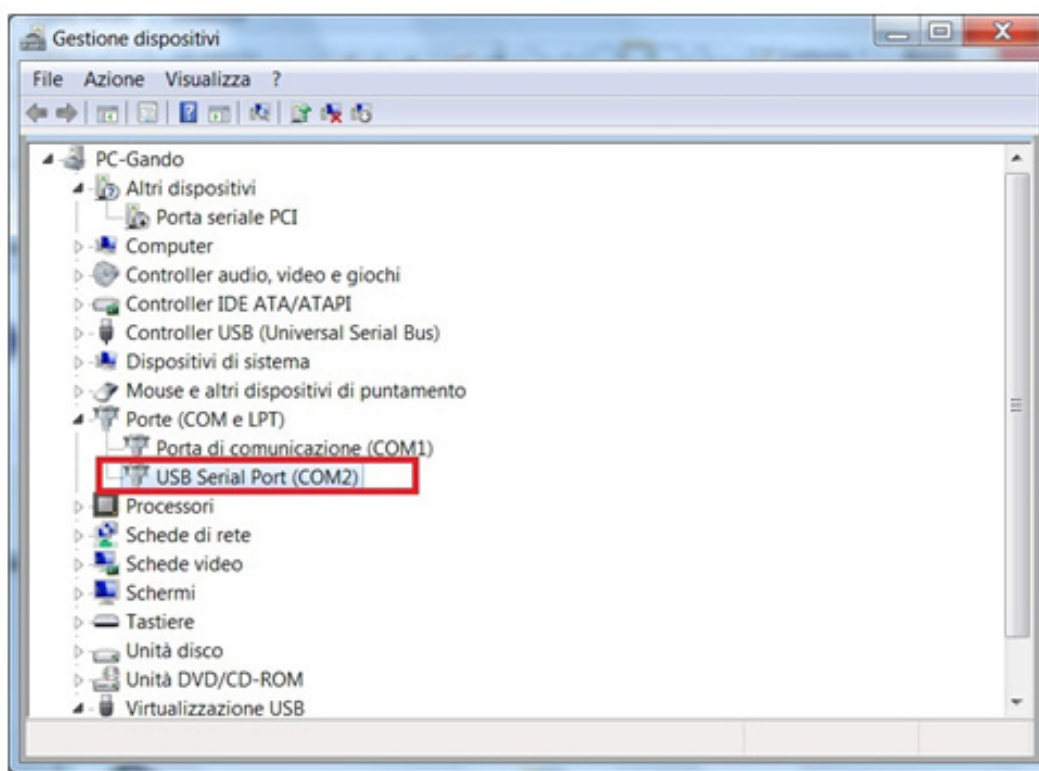
Choose a port COM between 1 e 8 And then click on OK:



Click on "Sì":

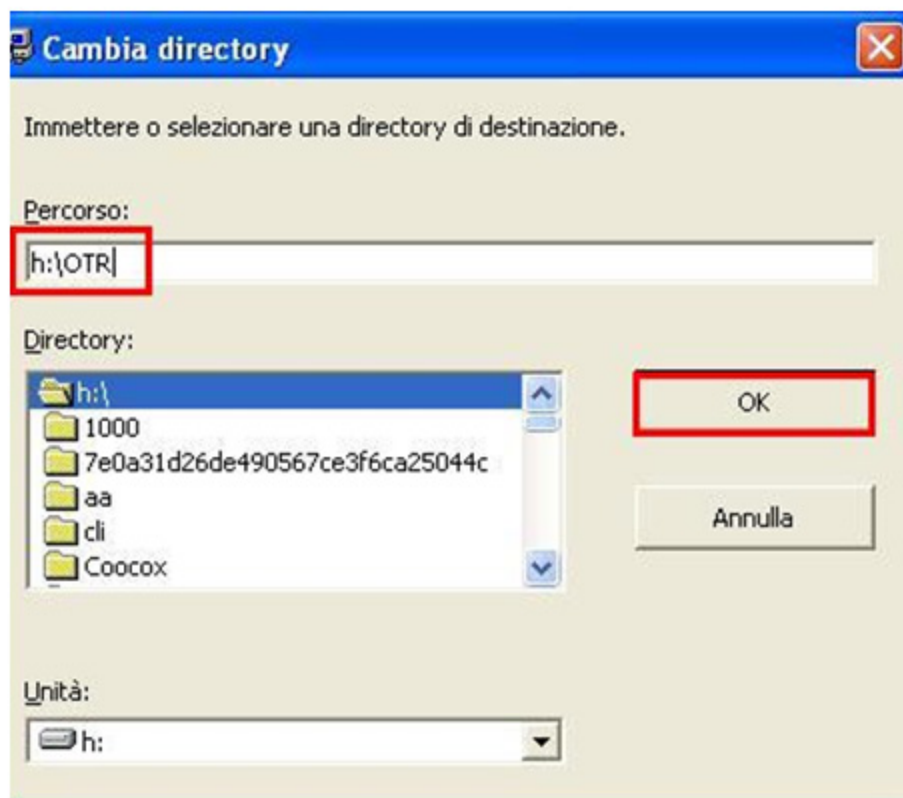


Check USB Serial Port is correctly Installed:

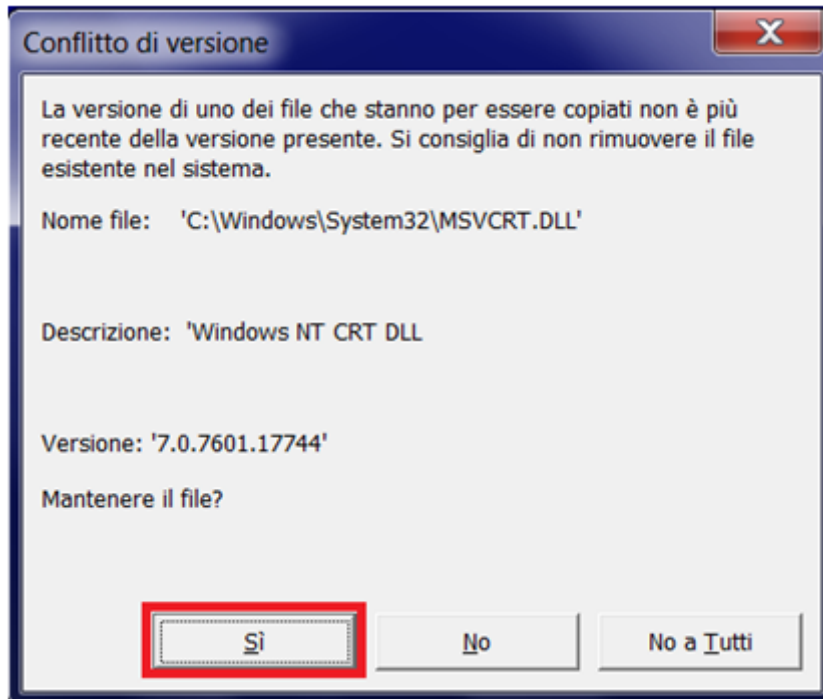


1. Disconnect the USB-Serial adaptor from PC, and connect again the adaptor. Now it's installed.
2. Instal D200 software provided by O.T.R. To do that double click on Setup.exe. file. And proceed in the following way:

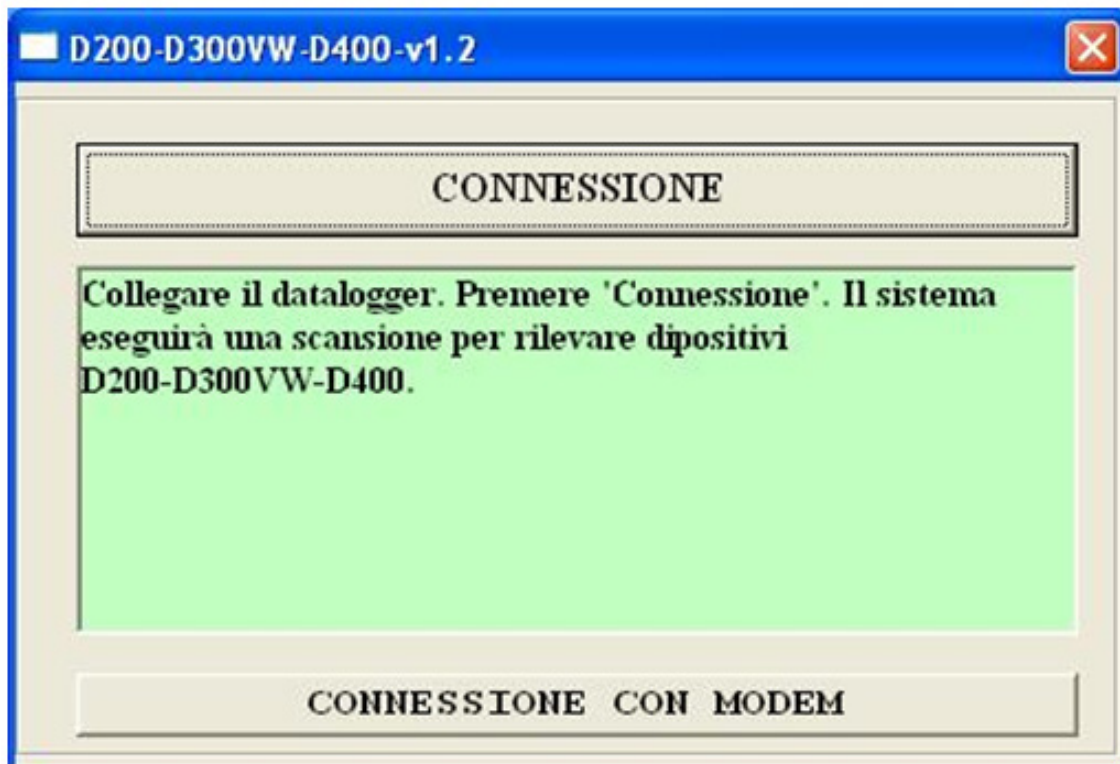
Select installation folder, specifying a real folder created by the user, not by the system (Don't choose Programmi, Program Files, and so on)



3. If some installing's dll is older than the current one on PC, choose to maintain file, clicking on "Sì":



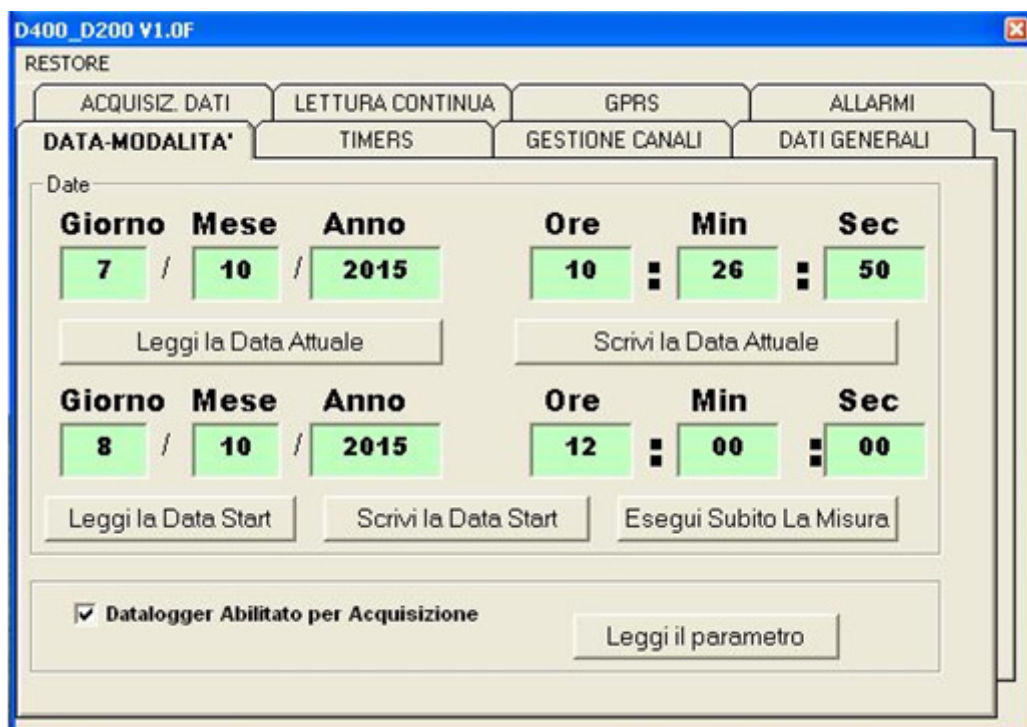
4. Connect Datalogger to the PC. If LED lights up, wait its shutdown (LED should light up for 2 or 3 minutes).
5. Open the software for D200 and click on "Connessione".



Uses & Main functions

Write “Data Attuale”

Reading “Data Attuale” (Datalogger’s Clock) change, if it’s necessary, with “Scrivi la Data Attuale”:



Read & Write Data Start

Read and change the next acquisition date of the next acquisition data clicking on "Leggi la Data Start" or "Scrivi la Data Start".

Take the Measurement Now

"Esegui Subito la Misura" write a "Data start" corresponding to a previous time from the current date, forcing Datalogger to take a measure when it's disconnected from the PC, or when the software is closed.

Registering Datas

If "Datalogger Abilitato per Acquisizione" isn't check, the instrument won't register datas.

On the previous exemple: it's 10:26 of 07 October 2015, and datalogger will scan automatically next monitoring at 12:00 of the 08 October.

Set the time distance of two consecutives measurements, opening the window TIMERS:



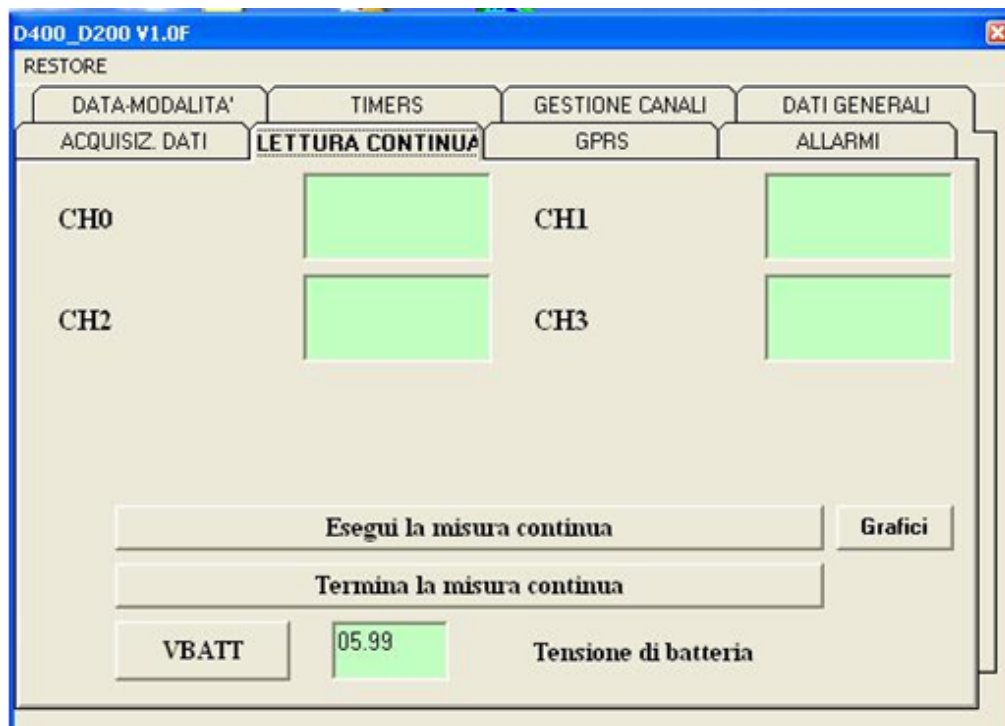
In this example Datalogger will measure the datas from 12:00 of 08 October. And the next acquisition will be at 13:00 of the same day, and every hour leater.

Read & Write Acquisition Time

"Leggi i tempi di acquisizione" Read the timer. "Scrivi i tempi di acquisizione" score the timer.

Sensors' Wiring

To check sensors' wiring select the windiw "Lettura Continua" :



"Esegui la misura continua" Score every functioning channel (1 or 2 Channels).

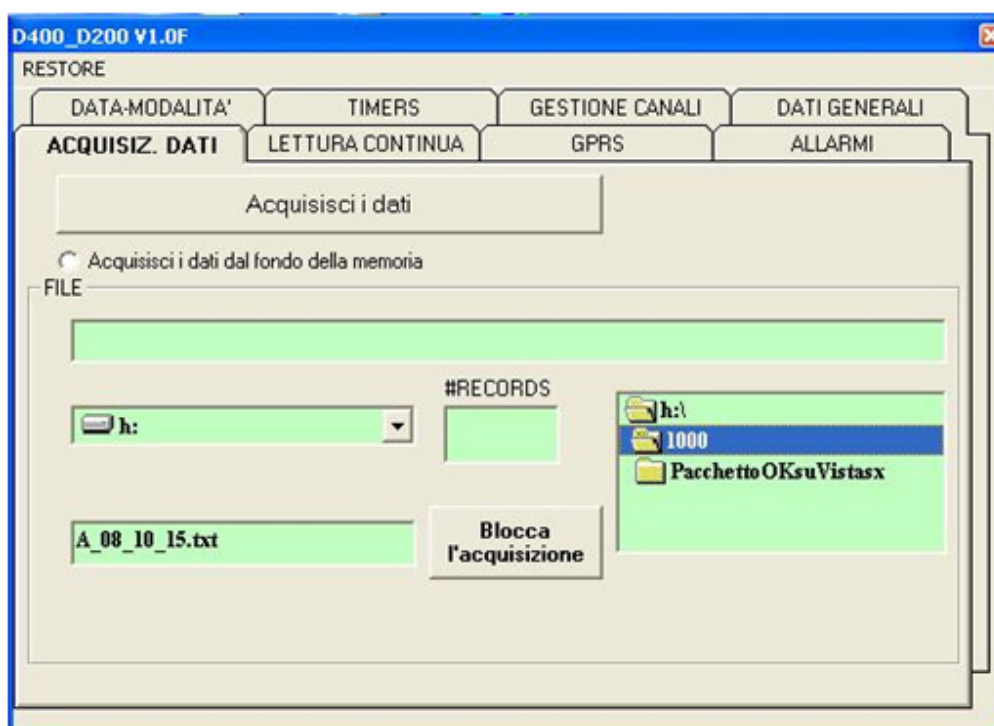
"Termina la misura continua" Stops datas' reading.

VBATT shows battery charge on the monitor (V Batt)

WHEN THE BATTERY LEVEL IS UNDER 5.7V THE BATTERY HAVE TO BE RECHARGED OR REPLACED.

Download Datas

To download the datas on PC, open the window "ACQUISIZIONE DEI DATI":



"Acquisisci i dati" start datas download on PC

Memory, datas and Channel numbers

To cancel datas inside datalogger's memory: open "Gestione Canali" Window and click on "Cancella la memoria dati". This command cancel only acquisition datas, every other parameter won't be modified. Clicking on "Scrivi il numero dei canali", the number of the channels will be rewritten. This operation force soppression of every acquisition data, just like clicking on "Cancella la memoria".