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evaluate

CONFIGURE • PREVIEW • EVALUATE

SOFTWARE MANUAL v1

Software Version 1.0.5-b1

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EnviroPro® Evaluate software provides users with a fast, simple way to evaluate the functionality of the probe, configure settings and perform upgrades.
It allows users to view live data, troubleshoot and send direct commands to the probe.

Contents

Copyright

1. Connecting the EnviroPro® hardware to your PC

Required:

- EnviroPro configuration dongle (EPCD)
- Cable with parot clips
- PC with USB2 port

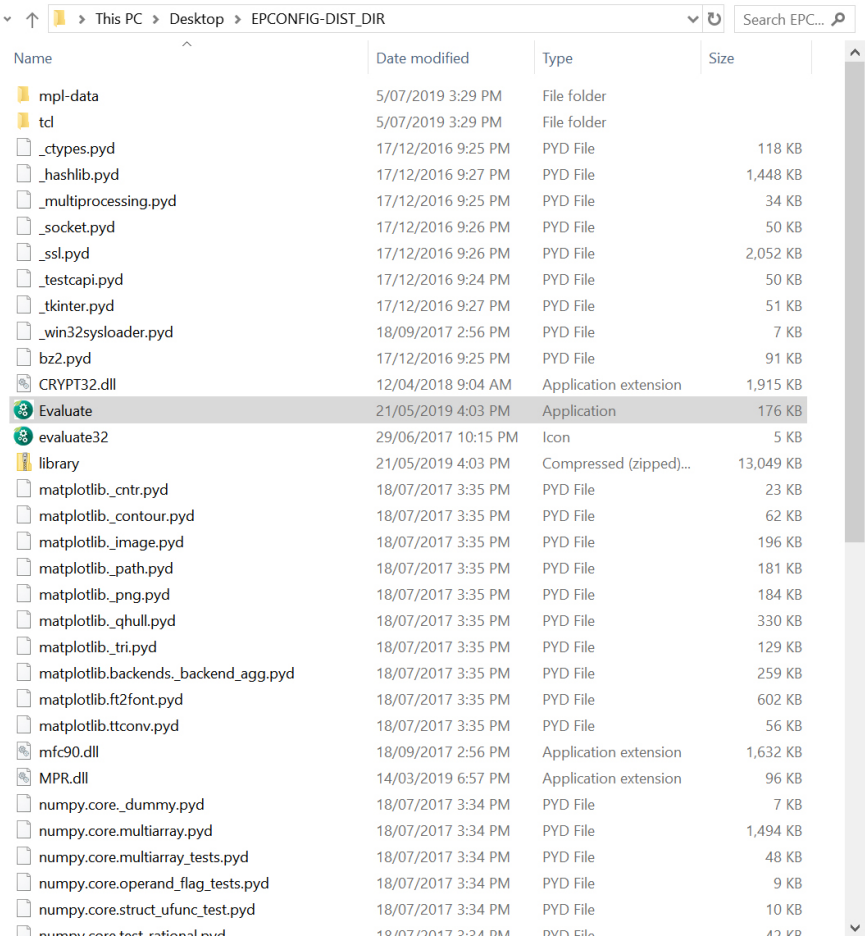
1. Plug the EPCD into a USB port on your PC

2. Depress the parrot clips and attach to the hook to exposed copper on the colour corresponding EnviroPro® cable

2. Launching the Evaluate software

- Evaluate software is supplied with every purchase of the EnviroPro® configuration dongle
- Evaluate software can also be downloaded at enviroprosoilprobes.com/support

1. Plug the EnviroPro® USB flash drive (supplied with your EPCD) into your PC, or download a copy of the Evaluate software from the EnviroPro® website.
2. On your PC, use file explorer to navigate to the application called Evaluate.exe and open. If an internet connection is available, Evaluate will check for any available updates and notify the user if any are found.

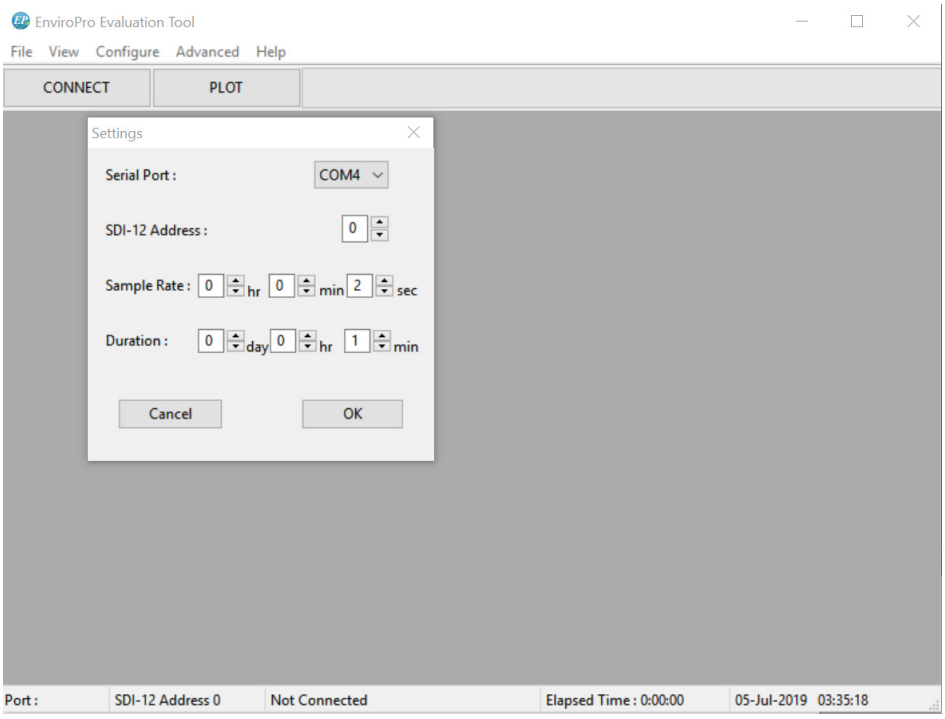


3. Connecting to the Probe

1. On opening the Evaluate software, the Settings window will appear. If your PC is successfully communicating with the configuration dongle, the Serial Port dropdown field will be automatically detected and filled.

   Set the SDI-12 Address to that of the probe. If you do not know your probe's address, leave the SDI-12 Address as '0.' Each additional probe will need to be given a unique identifying address. You can assign up to 10 probes (0-9).

   Adjust the sample rate at which the probe will measure and plot data and the duration of the log, then press OK.

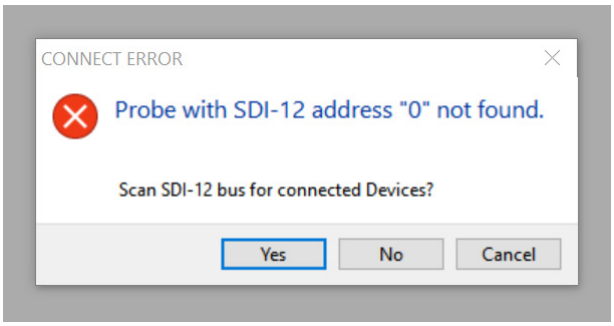


2. Press the CONNECT button.

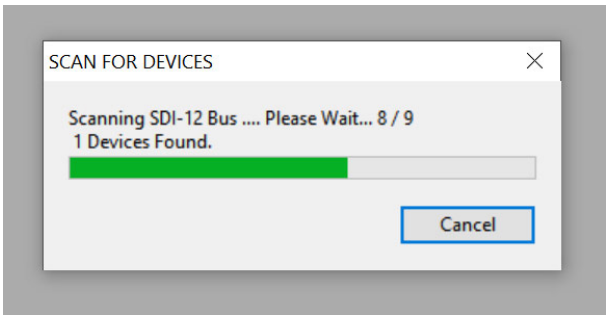
   WARNING: Do not remove the USB dongle from your PC while connected to the probe.

   If the SDI-12 address is correct, and the probe connects successfully, the window will display the live sensor readings. The program will not start plotting on the graph until you press the LOG button. If the SDI-12 a ddress is not correct and/or the probe failes to connect, go to Step 3.

3. If the probe fails to connect, the following dialogue will appear.



Press Yes to scan connected probes for their correct SDI-12 address.

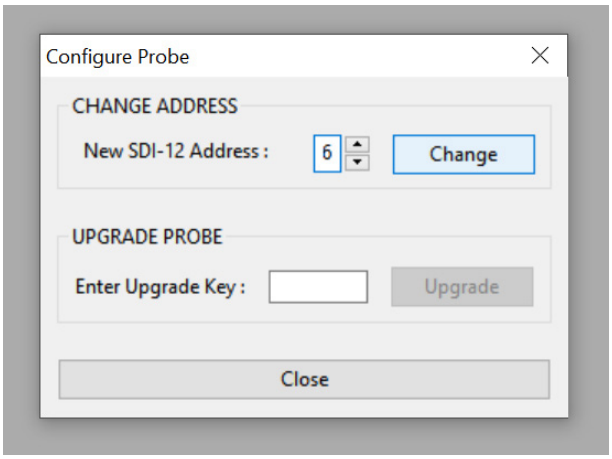


The Logging Settings will be automatically updated with the correct SDI-12 address, and the software will connect to the probe.

Changing/Assigning SDI-12 Addresses

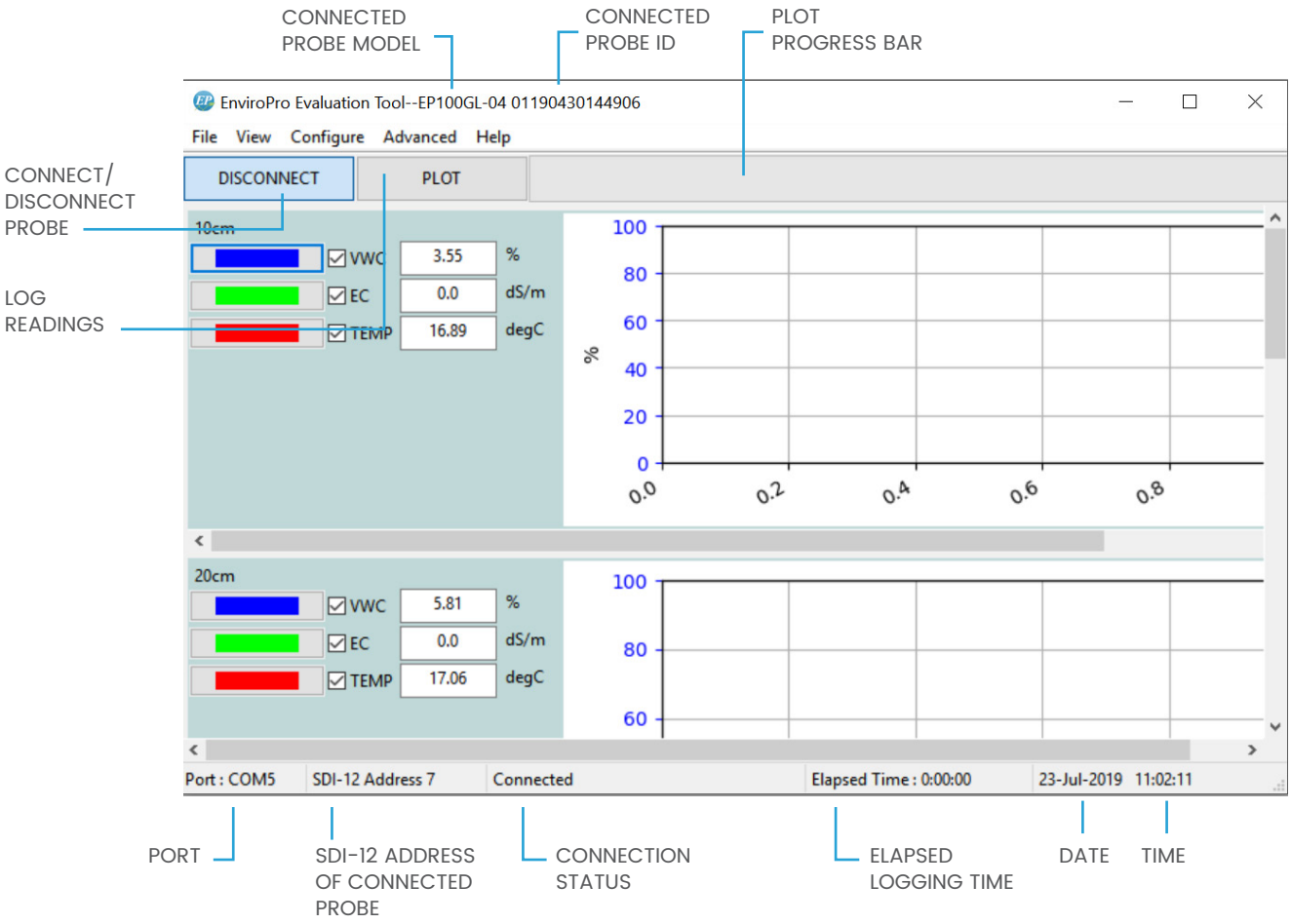
If you are connecting multiple probes, each probe must be assigned a unique SDI-12 address to avoid communication errors. If you are connecting probes that have previously been assigned the same address, you must change one to a different address.

1. To change or assign an SDI-12 address, go to Configure > Configure Probe.



2. Enter a new SDI-12 address (0-9) and press Change. The address in the Logging Settings window will automatically update, and the software will attempt to connect and identify the probe.

3. Using the Evaluate software:



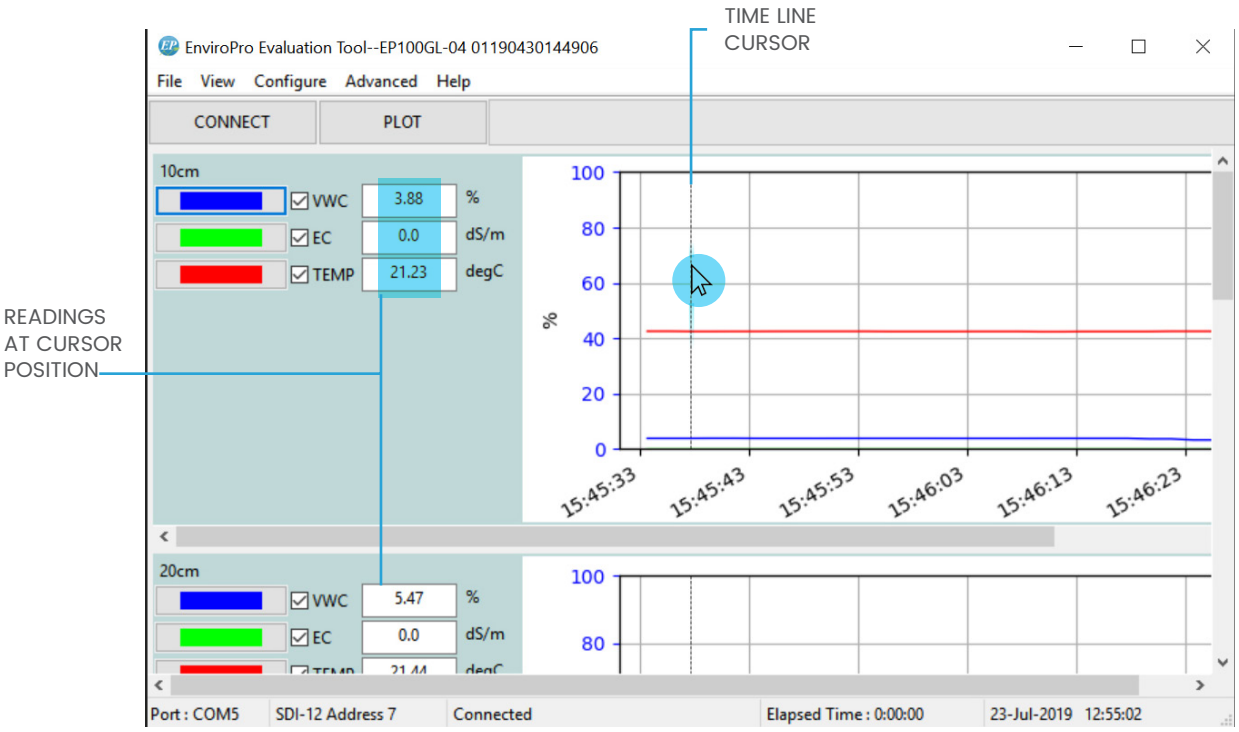
Log/Plot

3. To initiate logging, press the LOG/PLOT button. The sample rate and duration of the log is set in Configure > Evaluate Settings.

4. The plotting view can be switched between Sensor and Parameter mode. To change viewing mode, press the View in the top menu and choose from the dropdown options. You can switch views before, during logging or after a log is completed.

5. At the end of the set duration, a Save Log window will appear, giving you the option to save logs for later reference. If you do not wish to save the log, press Cancel. To open a previously saved log, go to File > Open Log File.

6. When viewing a saved log file, a time line cursor will appear in each view window and the recorded values of each parameter on the cursor time-line will be reflected on the left side of the viewing panel.



File

Open Log File - Open previously saved logged data. Log files are saved in .epl format.

Save Log - Save the current open log data in .epl format.

Save Log As - Save the current open log data as a new named file in .epl format.

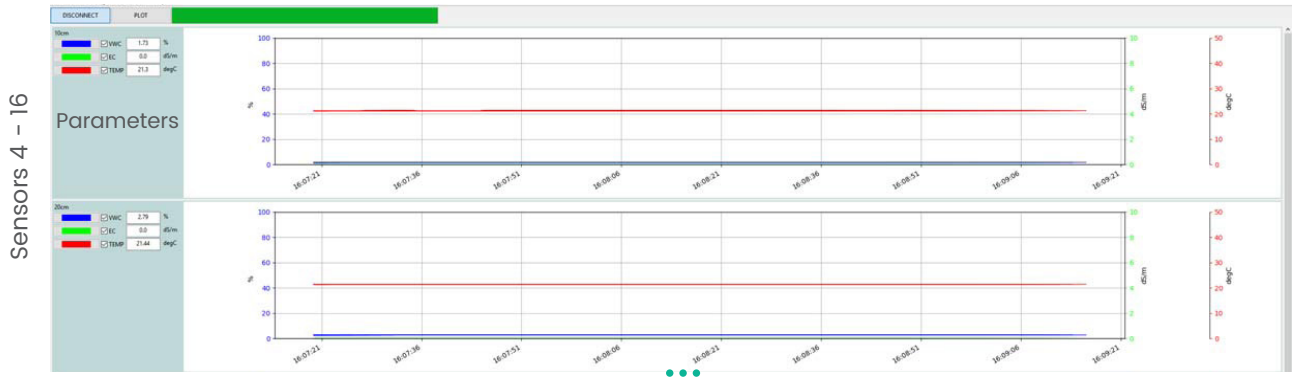
Note: Saved logging files can only be opened using in Evaluate.

Exit - Exit Evaluate

View

To initiate logging, press the LOG button. The plotting view can be switched between Sensor and Parameter mode. You can switch views before, during logging or after a log is completed under the View menu item.

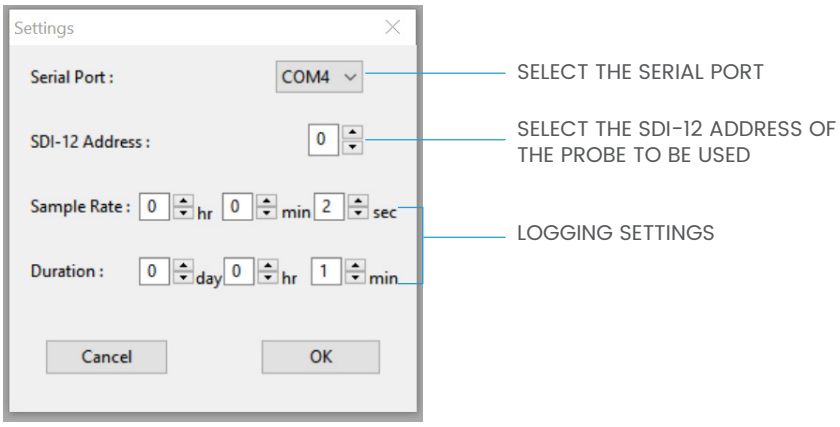
SENSOR VIEW



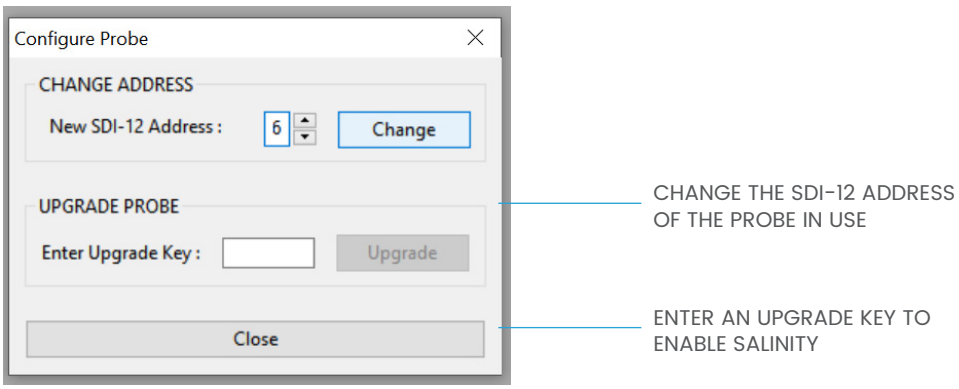
PARAMETER VIEW

Configure

1. Evaluate Settings



2. Configure Probe



Changing/Assigning the Probe Address

If you are using multiple EnviroPro probes with the Evaluate program, you will need to assign each probe a unique address. This can be assigned/changed at any time.

1. Go to Configure > Configure Probe. Under 'Change Address,' next to New SDI-12 Address, adjust the address and press the Change button. This will automatically update the SDI-12 Address selected in the Evaluate Settings window, and the software will attempt to connect and identify the probe.

Upgrading the Probe to Enable Salinity (EC)

To upgrade the probe to enable salinity (EC) readings, you will need to purchase an upgrade key from Entelechy. If the probe is already salinity enabled, the Upgrade Probe section will be greyed out.

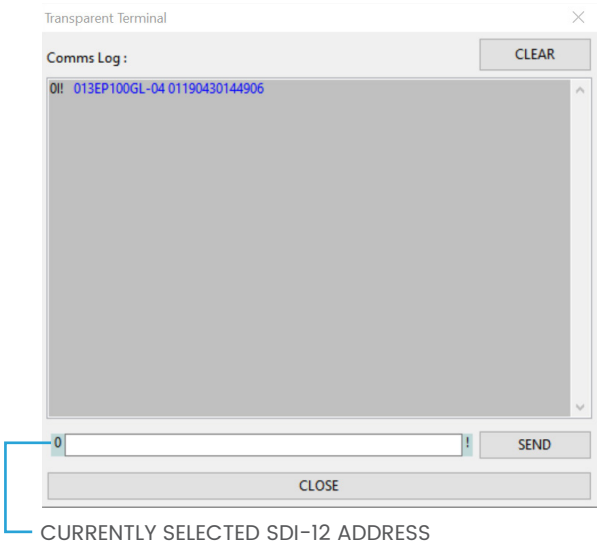
1. Go to Configure > Configure Probe. Under 'Upgrade Probe,' enter the upgrade key and press the Upgrade button.

Advanced

1. Transparent Terminal

The transparent terminal is for debugging purposes. It allows the user to send correctly assembled SDI-12 commands/packets directly to the probe to help troubleshoot common problems.

The terminal manages the use of breaks and inserts the configured address and termination character automatically.



1. Go to Advanced > Transparent Terminal. This will open a Comms Log window.

2. Enter SDI-12 commands into the diagolue box and press SEND. Visit enviroprosoilprobes.com/support for a list of SDI-12 Commands.

2. Update Firmware

Updated firmware files can be obtained through Entelechy.
Note: Firmware updates are not supported on EP100G series or earlier.

1. Go to Advanced > Update Firmware

2. Press Browse to locate the firmware file on your PC. Select the file and press the Open button. Evaluate will check that it is a valid update file.

3. Press Update to begin the firmware update. This can take several minute to complete. Do not disconnect or disturb the probe while updating firmware. It the process is interrupted or fails, repeat the update.