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SOFTWARE MANUAL v1 Software Version 1.0.5-b1











SOFTWARE MANUAL VI

Software Version 1.0.5-b1

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.

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1. Connecting the EnviroPro® hardware to your PC



- 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.

↑ 📕 > This PC > Desktop > EPCONFIG-DIST_DIR					✓ ບ Search EPC ۶		
Name		Date modified	Туре	Size		^	
📙 mpl-data		5/07/2019 3:29 PM	File folder				
📜 tcl		5/07/2019 3:29 PM	File folder				
ctypes.pyd		17/12/2016 9:25 PM	PYD File		118 KB		
_hashlib.pyd		17/12/2016 9:27 PM	PYD File		1,448 KB		
_multiprocessing.pyd		17/12/2016 9:25 PM	PYD File		34 KB		
socket.pyd		17/12/2016 9:26 PM	PYD File		50 KB		
ssl.pyd		17/12/2016 9:26 PM	PYD File		2,052 KB		
testcapi.pyd		17/12/2016 9:24 PM	PYD File		50 KB		
tkinter.pyd		17/12/2016 9:27 PM	PYD File		51 KB		
win32sysloader.pyd		18/09/2017 2:56 PM	PYD File		7 KB		
bz2.pyd		17/12/2016 9:25 PM	PYD File		91 KB		
S CRYPT32.dll		12/04/2018 9:04 AM	Application extension		1,915 KB		
🚷 Evaluate		21/05/2019 4:03 PM	Application		176 KB		
🚷 evaluate32		29/06/2017 10:15 PM	lcon		5 KB		
library		21/05/2019 4:03 PM	Compressed (zipped)		13,049 KB		
matplotlibcntr.pyd		18/07/2017 3:35 PM	PYD File		23 KB		
matplotlibcontour.pyd		18/07/2017 3:35 PM	PYD File		62 KB		
matplotlibimage.pyd		18/07/2017 3:35 PM	PYD File		196 KB		
matplotlibpath.pyd		18/07/2017 3:35 PM	PYD File		181 KB		
matplotlibpng.pyd		18/07/2017 3:35 PM	PYD File		184 KB		
matplotlibqhull.pyd		18/07/2017 3:35 PM	PYD File		330 KB		
matplotlibtri.pyd		18/07/2017 3:35 PM	PYD File		129 KB		
matplotlib.backendsback	end_agg.pyd	18/07/2017 3:35 PM	PYD File		259 KB		
matplotlib.ft2font.pyd		18/07/2017 3:35 PM	PYD File		602 KB		
matplotlib.ttconv.pyd		18/07/2017 3:35 PM	PYD File		56 KB		
嘭 mfc90.dll		18/09/2017 2:56 PM	Application extension		1,632 KB		
MPR.dll		14/03/2019 6:57 PM	Application extension		96 KB		
numpy.coredummy.pyd		18/07/2017 3:34 PM	PYD File		7 KB		
numpy.core.multiarray.pyd	l.	18/07/2017 3:34 PM	PYD File		1,494 KB		
numpy.core.multiarray_test	ts.pyd	18/07/2017 3:34 PM	PYD File		48 KB		
numpy.core.operand_flag_	tests.pyd	18/07/2017 3:34 PM	PYD File		9 KB		
numpy.core.struct_ufunc_te	est.pyd	18/07/2017 3:34 PM	PYD File		10 KB		
numpy care test rational p	ud.	10/07/2017 2.24 DMA	DVD Eila		AD VD		Y

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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.

👜 EnviroPro Evaluation To	ool			<u></u>		×
File View Configure	Advanced He	elp				
CONNECT	PLOT					
Settings Serial Port : SDI-12 Add Sample Rat Duration : Can	ress : tress : 0 ⊕ day cel	COM4 ✓ 0 ★ min 2 ★ sec 0 ★ hr 1 ★ min OK				
Port : SDI-12 Ad	Idress 0	Not Connected	Elapsed Time : 0:00:00	05-Jul-2019	03:35:18	.d

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.

Scanning SDI-12 Bus PI	ease Wait 8 / 9
1 Devices Found.	
	Cancel

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.

•	Chan	ge
	Upgra	de

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.
- 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.



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Configure

1. Evaluate Settings



2. Configure Probe

Configure Probe	×	٦	
CHANGE ADDRESS New SDI-12 Address :	6 🔶 Change		
UPGRADE PROBE Enter Upgrade Key :	Upgrade	-	
CI	ose	-	

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.

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enviroprosoilprobes.com



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.

	\times	
CLEAR		1.
	^	
		2.
 SEND	~	
OLIND.		
	CLEAR	CLEAR

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

Firmware Update	×
SELECT UPDATE FILE	
Firmware File	Browse
PROGRESS	
	UPDATE
CLOSE	



