

EUTECH INSTRUMENTS

Technology Made Easy ...

Installation and Instruction Guide on CyberComm Portable Data Acquisition Software (DAS) Program

This Installation and Instruction Guide is used for the following meter models:

CyberScan pH 110 portable pH meter;

CyberScan CON 110 portable Conductivity meter

CyberScan DO 110 portable Dissolved Oxygen meter

1 Installation Guide

To run the DAS program, the following is required:

1. PC - IBM Compatible XT and above with CD-ROM Drive
2. EGA Monitor and above
3. Windows© Operating System '95 and above
4. Connecting communication RS232C cable

1.1 Loading CyberComm Portable DAS

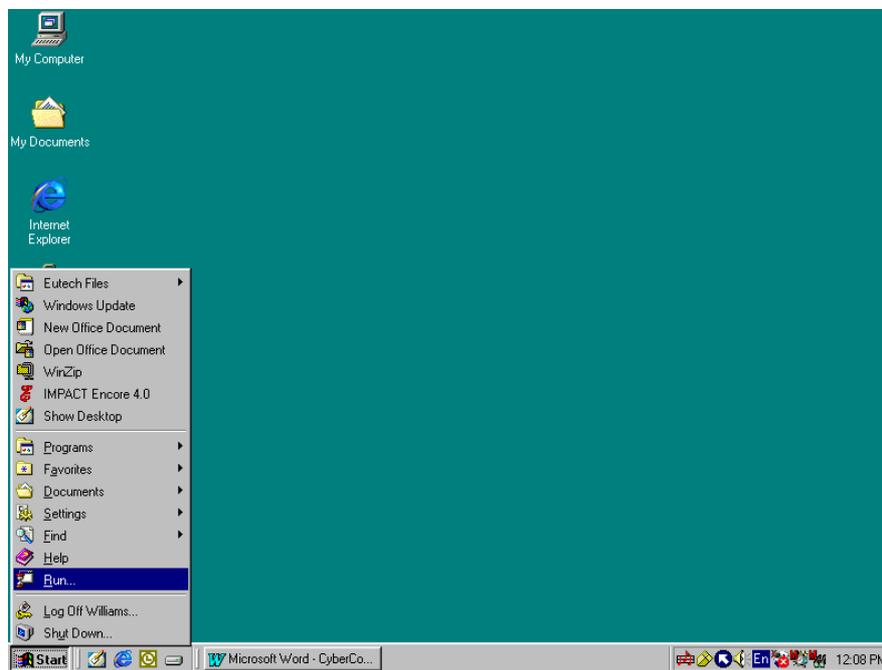


Figure 1: Insert Eutech Instruments' CD-ROM containing Data Acquisition Software (DAS) into your CD-ROM drive. It will Auto Run and let you start loading the software by displaying the screen as in Figure 4. Alternatively, you can also manually load the software by clicking the START button and RUN command.

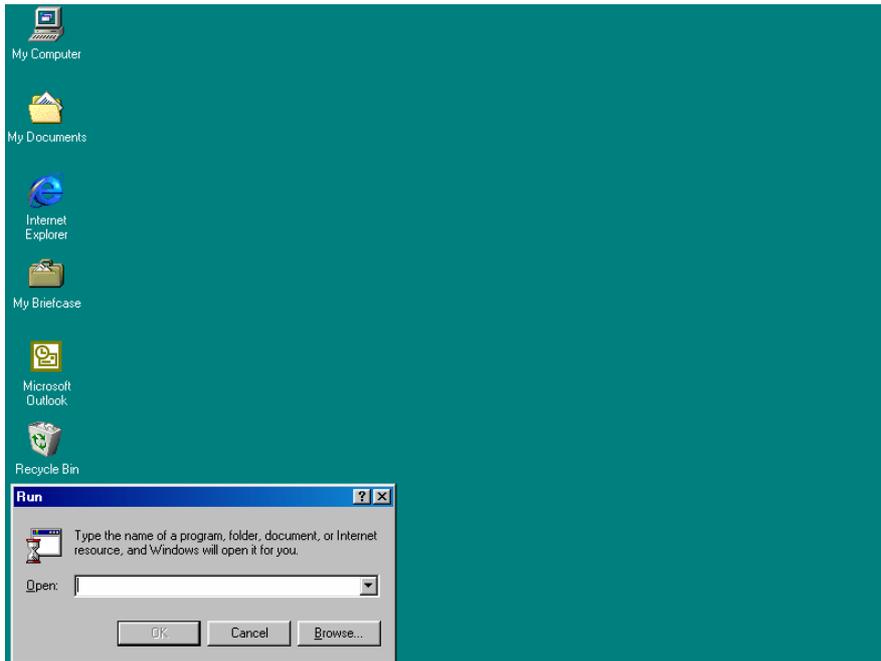


Figure 2: Click on 'Browse' button and locate CD-ROM drive

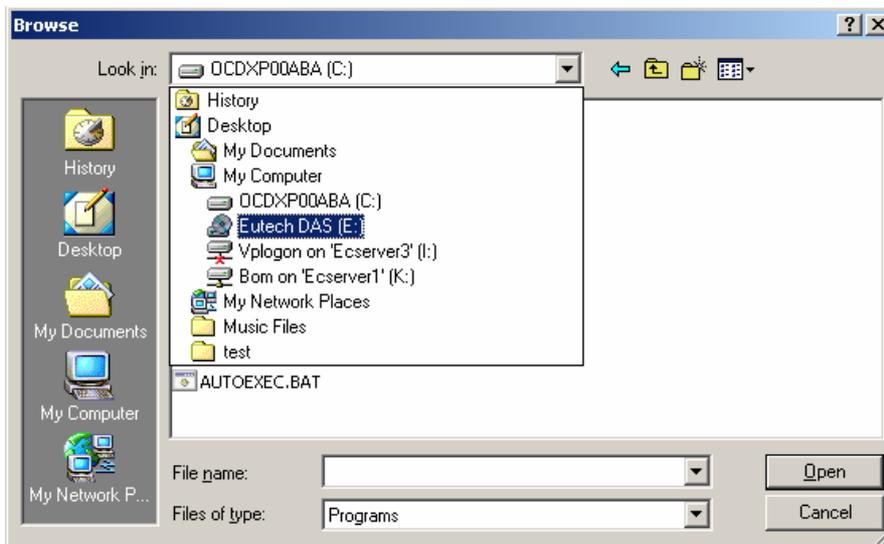


Figure 3: Locate the CyberComm Portable Setup program in the CD-ROM under "Eutech DAS" directory.

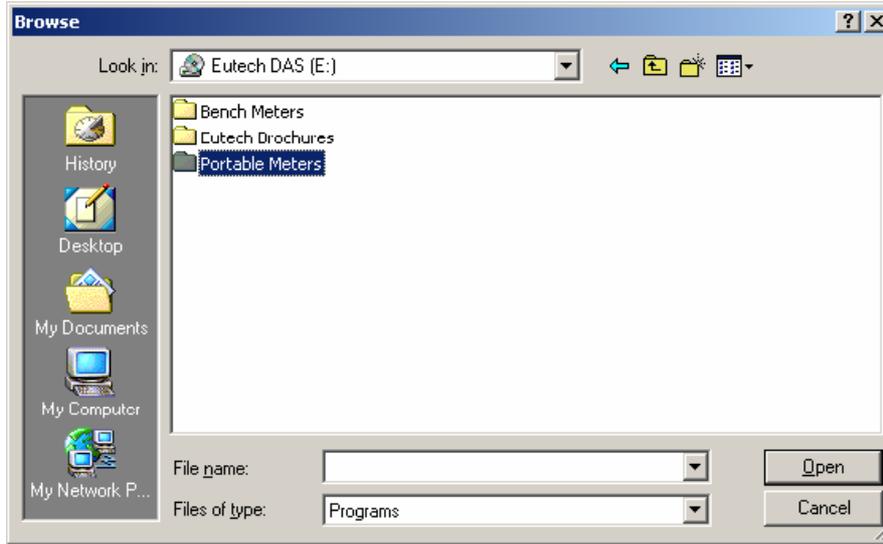


Figure 4: Select 'Portable Meters' directory to go to CyberComm Portable.

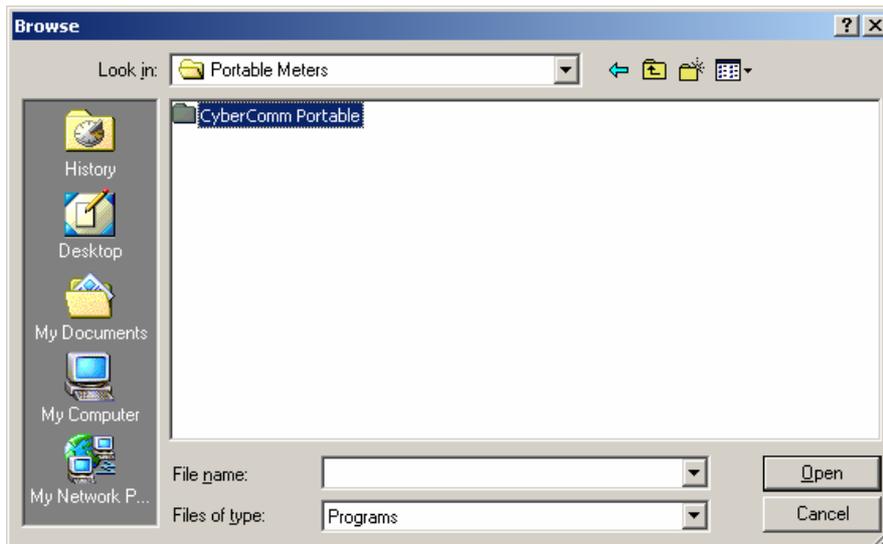


Figure 5: Open 'CyberComm Portable' to enter to the Setup program.

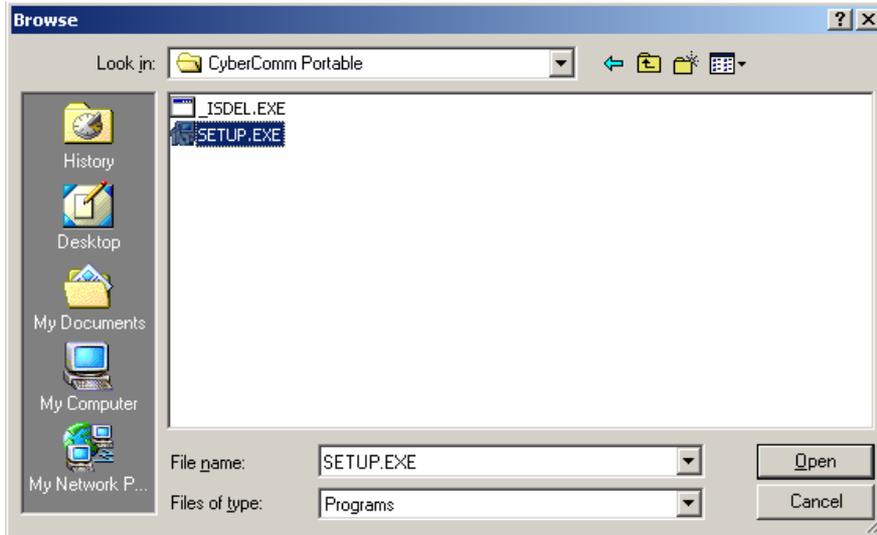


Figure 6: Select "SETUP.EXE" program and click the OPEN button

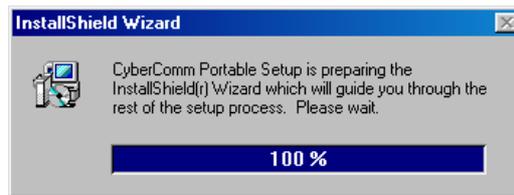


Figure 7: InstallShield Wizard dialog box appears.

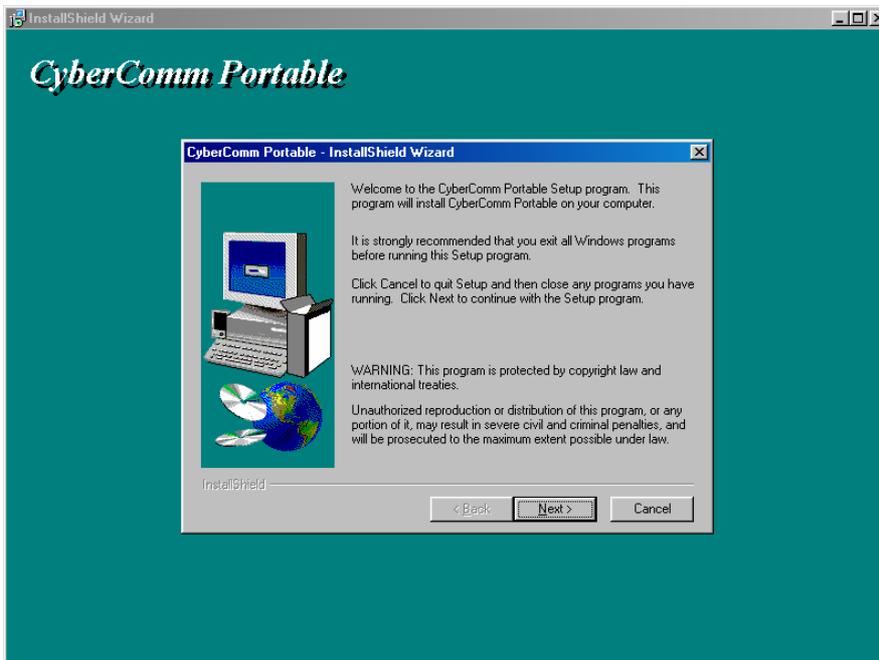


Figure 8: Click on Next button

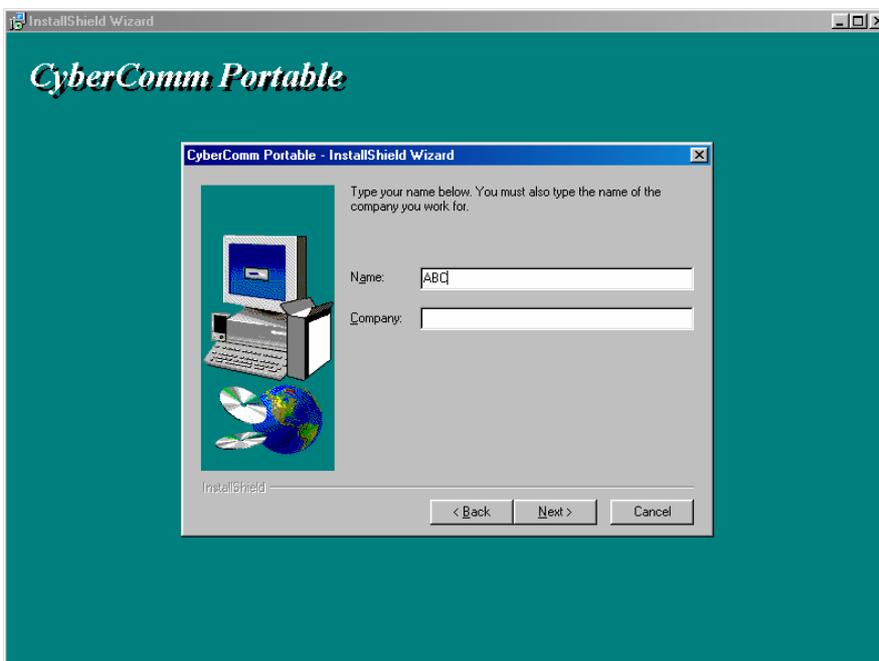


Figure 9: Key in your name and company name and click NEXT button

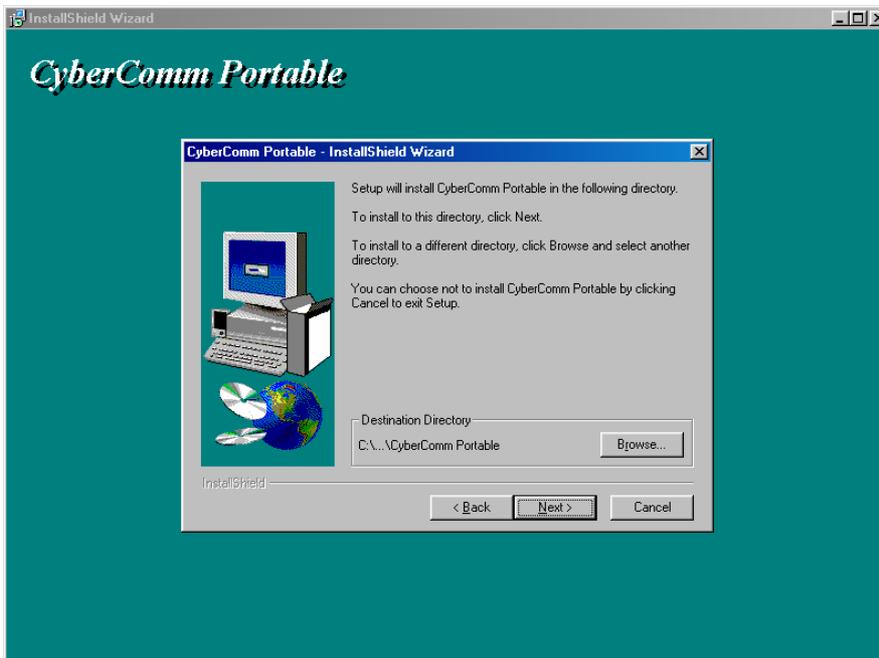


Figure 10: To select another Destination Directory to install the program, click on BROWSE button. Otherwise, click NEXT button.

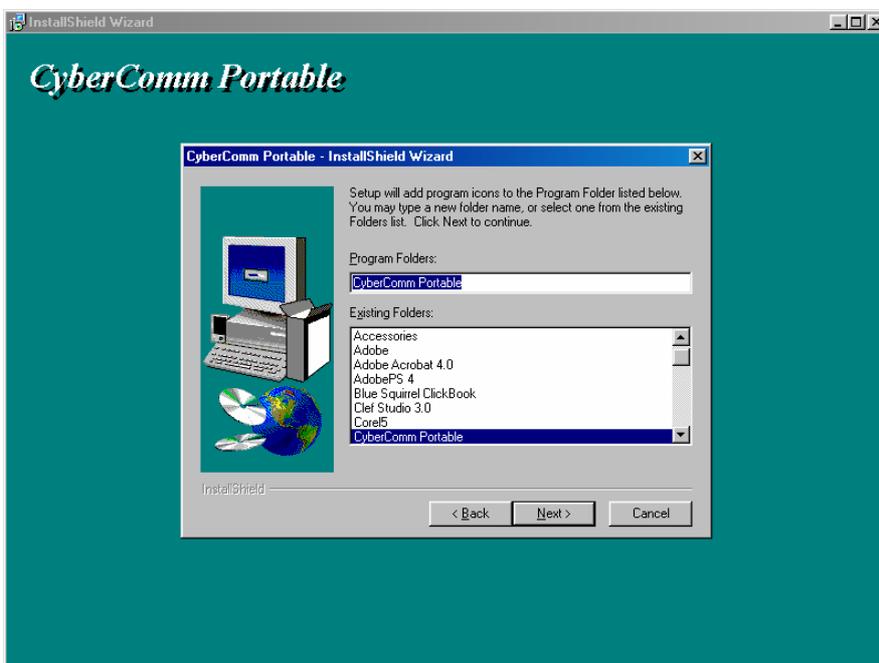


Figure 11: Creating a new program folder. Click on NEXT button.

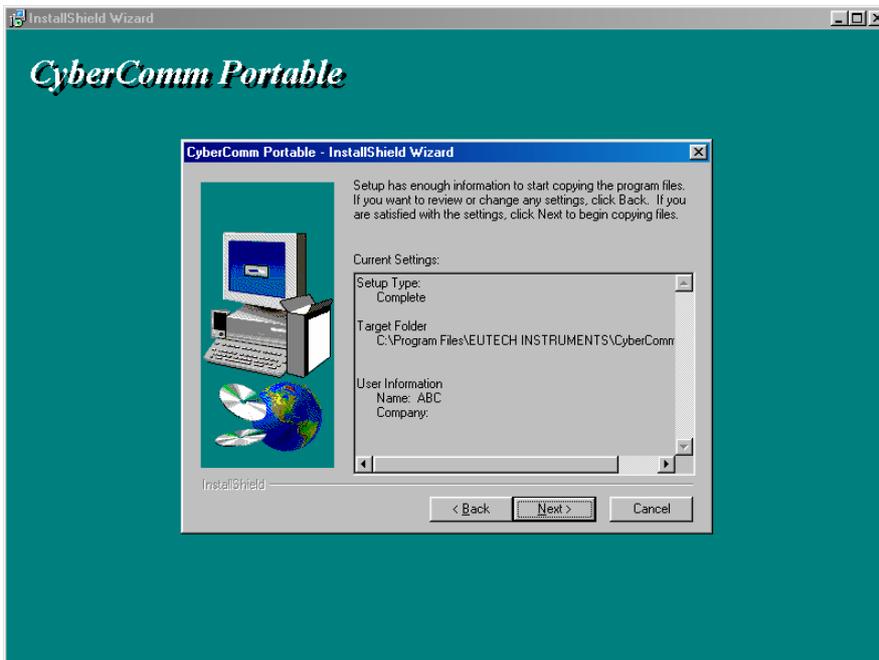


Figure 12: Click on NEXT button.

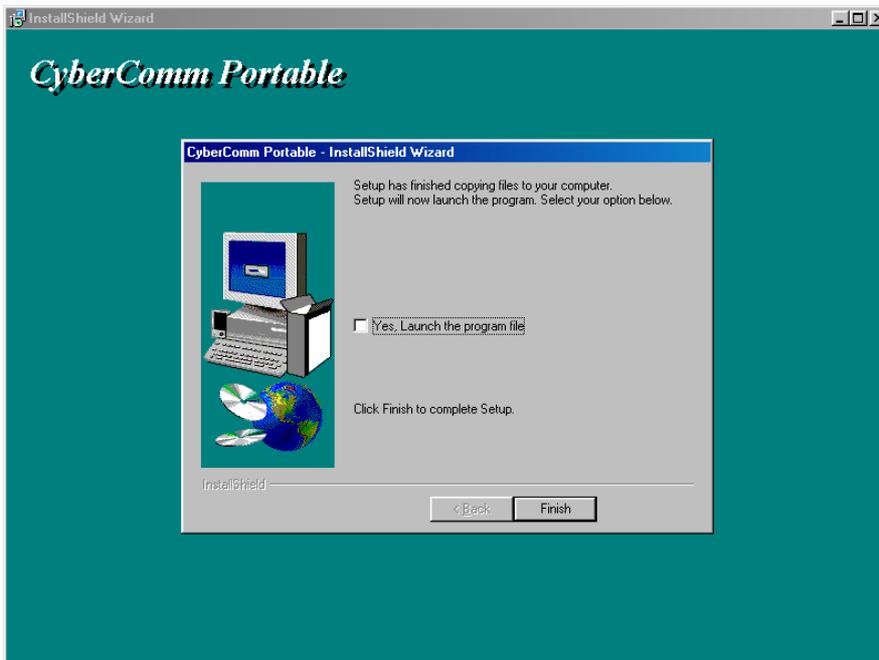


Figure 13: The CyberComm Portable DAS program is fully installed. Click on FINISH button to end installation.

2 Running CyberComm Portable

Before running the DAS program, please ensure that the RS232 cable is connected between the computer's serial port and the meter's port.

A 1-metre RS232C cable with 9-pin male to 9-pin female connector, (Order No. EC-CA01M09F09), is supplied with the CyberScan portable meter.

For information on the connection, please refer to the respective meter's instruction manual on the section "Connecting the RS232C Cable".

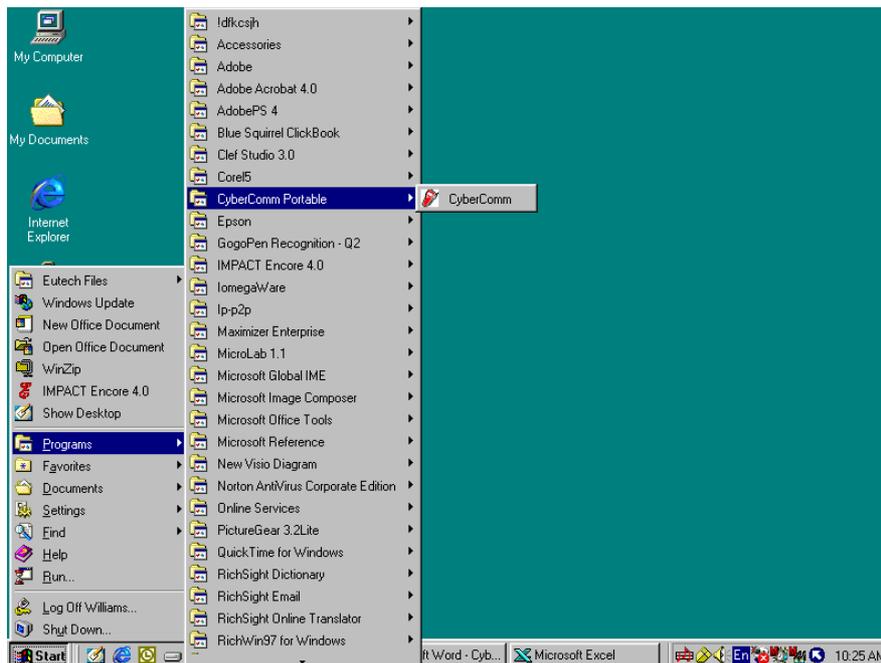


Figure 14: Run the CyberComm Software program

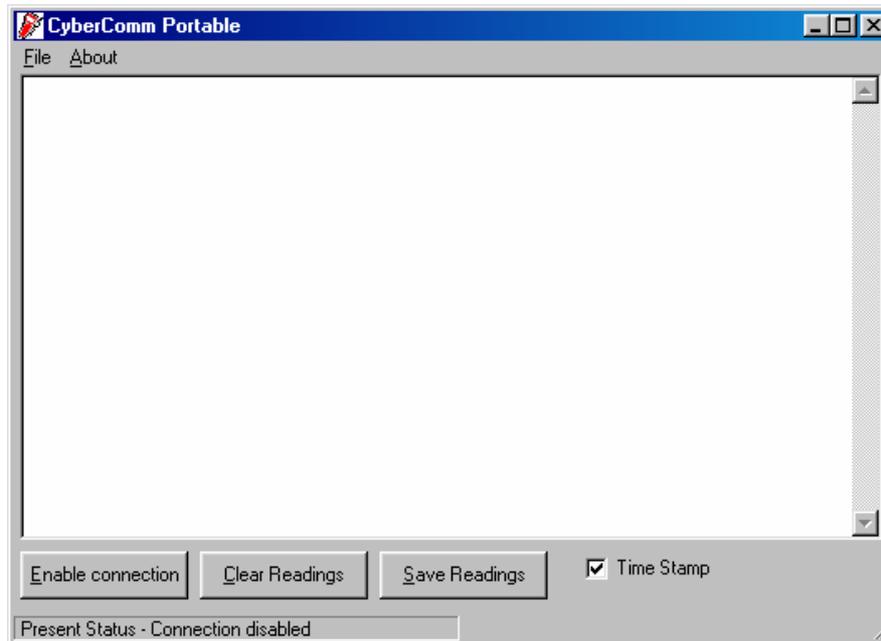


Figure 15: The opening screen will appear as above

2.1.1 Buttons & Check-Box

- Enable Connection - Click this button to enable communication between meter and computer.
- Clear Readings - To clear all data and start all over again.
- Save Readings - To save all data displayed in either *.dat or *.txt format.
- Time Stamp - To include Time and Date stamp when collecting the data. Time and date information comes from the computer.

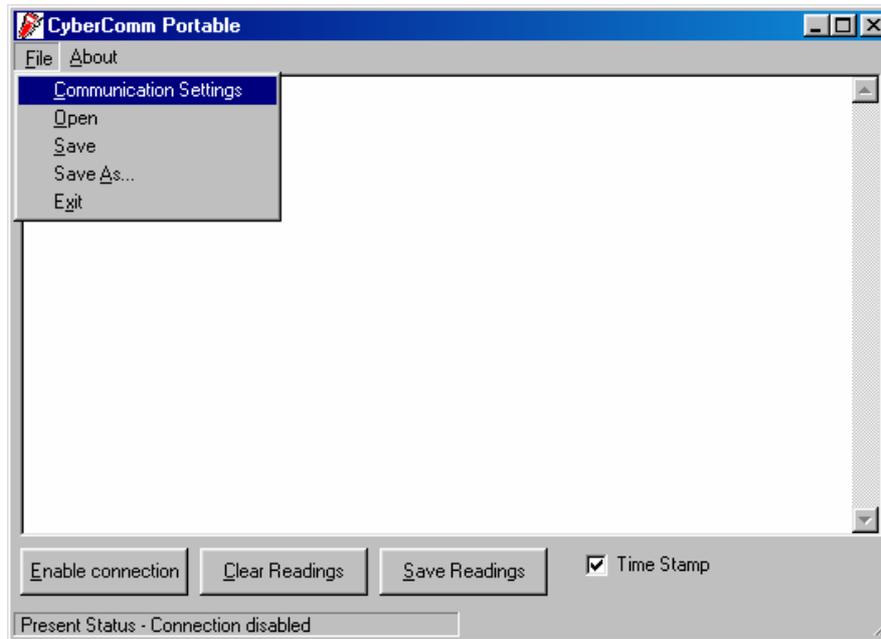


Figure 16: Under File Menu setting, you can change various parameters. Under ABOUT menu, details of Eutech Instruments' contact information, email address and updates are shown.

2.1.2 Menu

- Communication Settings - To set communication port number, baud rate speed, parity and stop bits protocol.
- Open - To open previously saved data file.
- Save - To save current data captured.
- Save As - To save current data set in another format such as *.dat or *.txt.
- Exit - To exit from CyberComm Data Acquisition Software program.

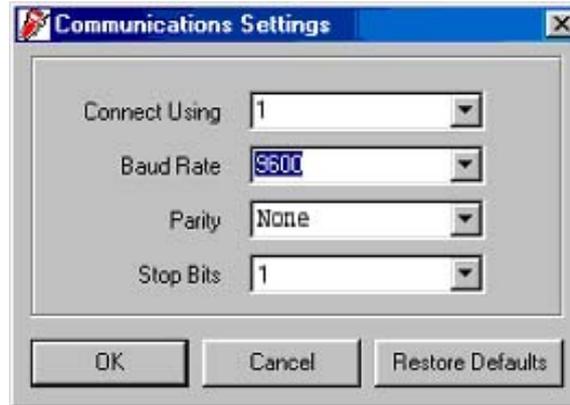


Figure 17: Communication Settings for computer's com port. It must match with COM port settings on CyberScan portable meter. Please refer to meter's instruction manual under Communication Settings for more information.

2.1.3 Communication Settings

- Connecting Use: - To select communication port, 1 or 2
- Baud Rate: - To select different baud rate, 2400, 4800, 9600 or 19200
- Parity: - To select different parity, Even, Odd or None.
- Stop Bits: - To select different stop bits, 1 or 2.

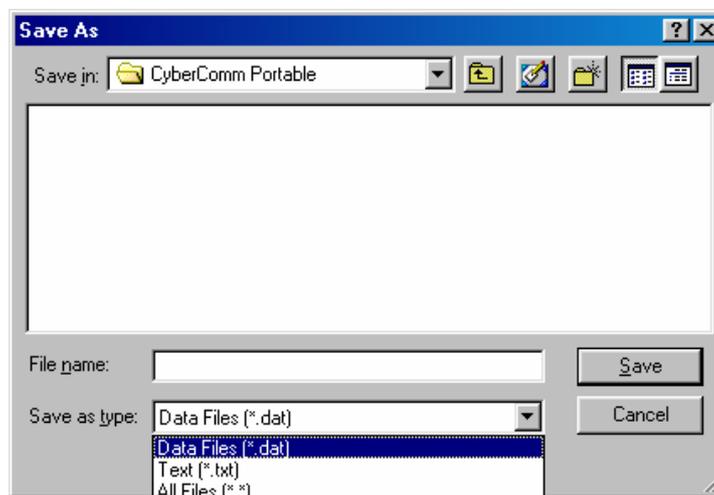


Figure 18: Under SAVE AS menu, you can save your data as *.dat or *.txt formats

3 Capturing and Printing Data into Computer Using Cybercomm Portable

After matching the Communication Settings between your computer using Cybercomm DAS and the CyberScan portable meter, you can now capture data into your computer for analysis and storage purposes.

1. Ensure the 1-metre RS 232C communication cable (supplied with the meter) is connected between the computer's communication port and CyberScan Portable meter's COM port. Refer to meter's instruction manual for connection procedure. Click "ENABLE CONNECTION" button.
2. Switch on the CyberScan Portable meter and run the CyberComm DAS software as indicated in Figures 14 and 15. You can use MODE key on the meter and change to other parameter and print data accordingly.
3. Click "ENABLE CONNECTION" button.
4. With the CyberScan Portable meter switched ON, press the PRINT key to send data to the computer. See example Figure 19 below.
5. You can use MODE key on the meter and change to other parameter such as mV, Rel mV, Conductivity or TDS, and print the data accordingly.
6. You can also check off the Time Stamp function, so as to print without the Time and Date information.
7. You can click Clear Readings button to begin another set of measurements, or click Save Readings to store readings for future retrieval.

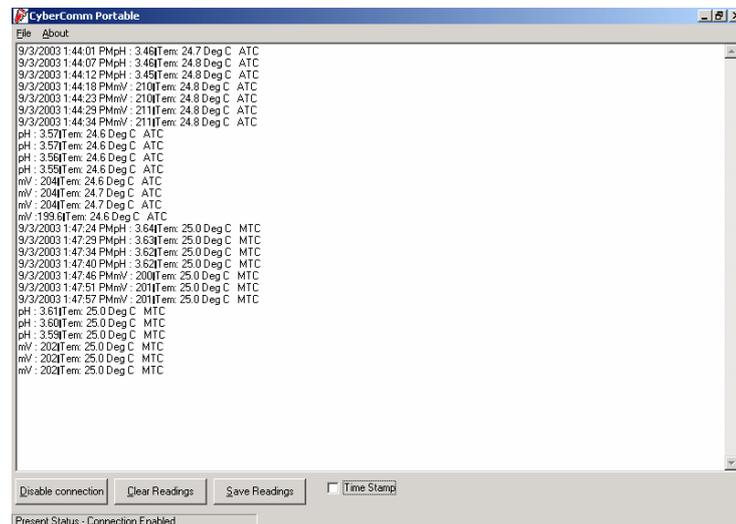


Figure 19: Example of a set of data print in CyberComm Portable DAS

3.1 **Trouble-shooting Guide**

a) Problem: Unable to PRINT

When press PRINT key on CyberScan portable meter, nothing is printed.

POSSIBLE CAUSES	SOLUTIONS
You have not "ENABLE CONNECTION" in the Data Acquisition program.	Click on "ENABLE CONNECTION" in the Data Acquisition program.
The "Communication Settings" in the Data Acquisition program is different from meter's setup.	Match the COM port number, baud rate, parity and stop bits information between the Data Acquisition program and the meter.
The COM port number in the Data Acquisition program is wrong.	Change the COM port number (1 or 2) in the Data Acquisition program.
Your computer's COM port setting may be wrong.	Check your computer's hardware settings (through Windows OS, BIOS, or any other OS) and refer to computer's manual or consult with the computer's manufacturer.
You may have used the wrong communication cable.	Make sure you use the RS232C cable supplied together with the meter (Part No. EC-CA01M09F09). Check the RS232C configuration as described in the meter's instruction manual.

To report any bugs, please e-mail to techsupport@eutechinst.com

For additional information please check out our website at www.eutechinst.com