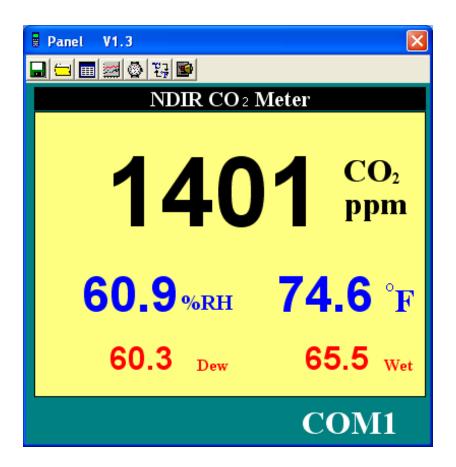


Software User Guide

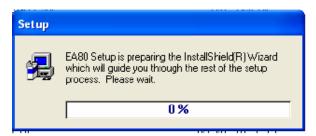
EA80 Indoor Air Quality Meter Datalogger



Software Requirements and Setup

- Start WindowsTM 95 / 98 / 2000 / or XP operating system
- Close all other applications
- Insert supplied program disk in the PC CD-ROM drive
 Wait for "Autorun" to start and follow the on-screen instructions
 (If "autorun" does not start, click "Start" then "Run". Type the drive letter and ": \Disk1\Setup.exe" and click "OK" .)

Setup program will run automatically.

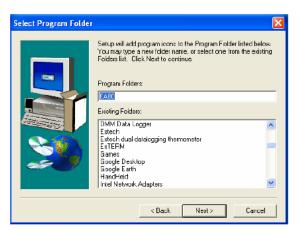


Click Next> button

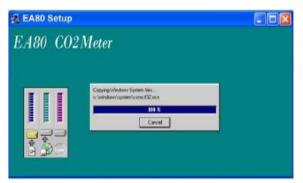




Click Next> to use the default folder or Click Browse... to select a different folder



Click Next> button

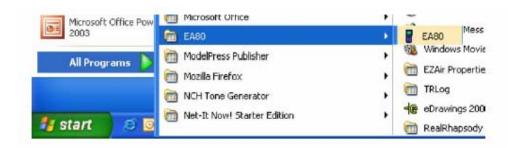


Setup is complete.

Software Operation

Run the software

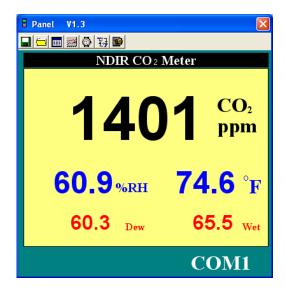
Click "Start" from Start menu then move to "All Programs" (or "Programs") then "EA80" and then click the "EA80" icon.



Click an available COM port

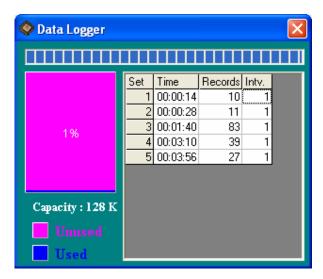


The main software screen

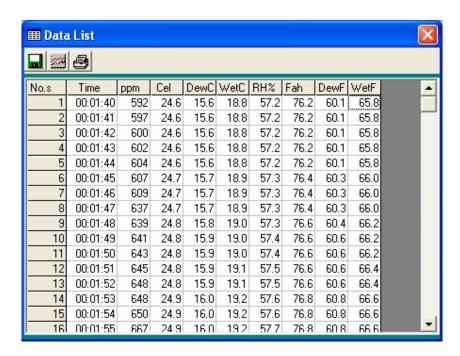


Downloading Logged Data

Push and hold the WET button on the meter for about 3 seconds. The Data Logger window, shown below, will open.



Click on a SET number to view the logged data. In the window above, there are 4 sets from which to choose. The list below is an example of an opened set.



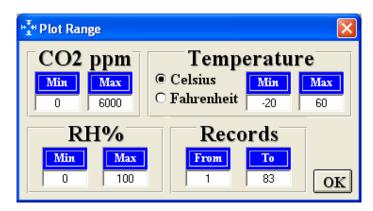
Click to save.

Graphing Data

Click to graph. The Graph will appear:



Click to edit plot range

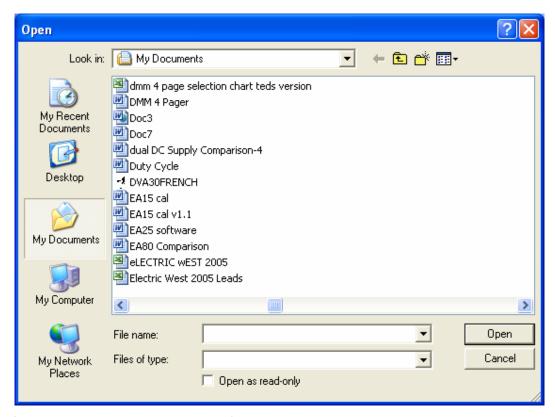


Printing Data

Click do print.

Opening a Previously Saved File

Click the button. The Open File window will appear:

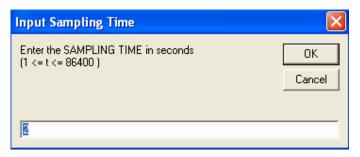


Select the file and then click the Open button.

Data Acquisition

In data acquisition mode the meter is connected to a PC.

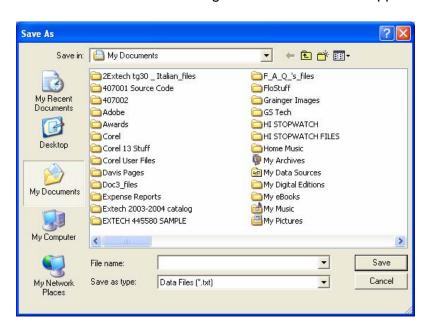
Click to set the sampling rate.



Enter a sampling time and click OK then click on to view data in table format or to graph.

Saving A File

Click the button. The dialog box shown below will appear.

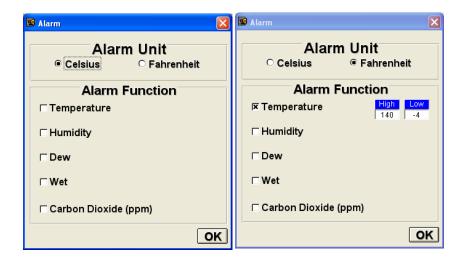


Input a file name and then click "Save" to begin saving data to the file.

Click the <u>u</u> button to stop recording.

Alarm Function in Data Acquisition

Click the button to bring up the alarm menu. Select the desired alarm. Fill in the high and low limits and click OK. The PC will sound an audible tone if the levels are exceeded.

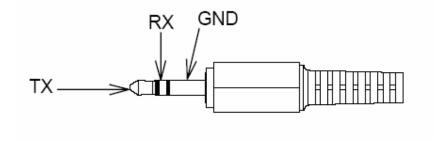


RS232 Wiring Hardware

PC Interface Cable

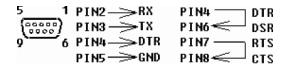
Meter side of PC Interface Cable

The RS-232 "phono" plug side of the PC Interface Cable connects to the meter's RS-232 phono jack. Refer to the diagram below for wiring information.



Computer's Serial Port side of Interface Cable

The RS-232 "DB-9" side of the PC Interface Cable connects to the PC's COM port. Refer to the diagram below for wiring information. Note that a SERIAL to USB Adapter may be used.



RS232 Settings

28800, N, 8, 1

RS232 Protocol

02 : Starting Byte

Flag: (Reserved)

ppm (H, L) : 0~6000

RH (H, L):0~100

Celsius (H、L): -20.0~60.0

03: LCD Ending Byte

Calibration Used

|--|

0 : Marking Byte

N2: SENSER N2 Value

AIR : SENSER CO2 Value

FF: Marking Byte

Baud Rate : 28800 (15 bytes data / 0.25 seconds)

Datalogging: (Maximum: 99 sets)

Head: AA 55 AA 55 AA 55 AA 55 AA 55 AA +Total Set+ Last Add+Any command

Record of 1st set+Time+INTV+ Any command...Data...Any command

Record of 2nd set+Time+INTV+ Any command...Data...Any command

After 256 bytes of data have been downloaded, the Meter waits for Any command from PC

The Last Recorded data...waits for Any command from PC

Hardware Requirements and Setup

PC Hardware Requirements:

- 486 PC or above with available COM port and CD-ROM drive
- 4MB available hard-drive space

PC Hardware Setup:

- 1) Switch off all power related to the PC
- 2) Connect the DB9 (female) end of the supplied RS-232 cable to available COM port
- 3) Switch on all related power
- 4) Connect the phono plug end of the RS232 cable to the meter



Support line (781) 890-7440

Technical support: Extension 200; E-mail: support@extech.com Repair & Returns: Extension 210; E-mail: repair@extech.com **Product specifications subject to change without notice**

For the latest version of this User Guide, Software updates, and other up-to-the-minute product information, visit our website: www.extech.com Extech Instruments Corporation, 285 Bear Hill Road, Waltham, MA 02451

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