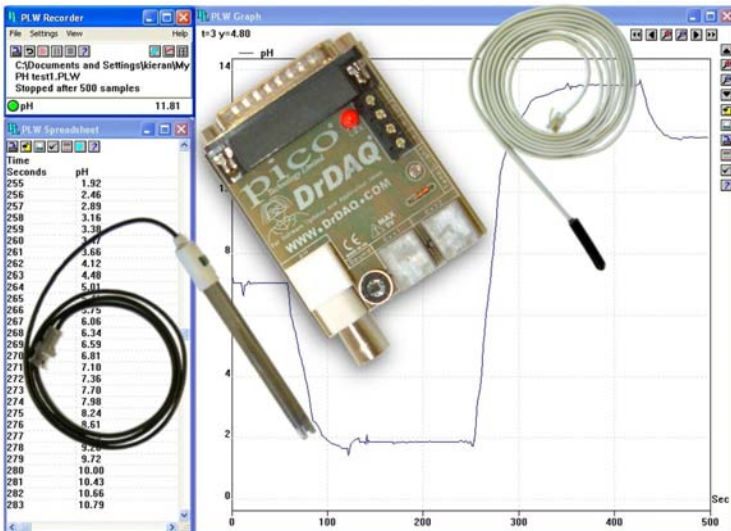


# pH Measuring Kit

## Quick Start Guide



## Pico pH Measuring Kit overview

The Pico pH Measuring Kit is an easy-to-use instrument for sensing, displaying and recording pH measurements on any standard Windows-based PC. The data logger module simply connects to the parallel port, and is accompanied by a software package that makes full use of the PC's processing capabilities, large screen and familiar graphical user interface.

### Main features

- Measures the full pH scale
- Automatic Temperature Compensation
- Requires no external power supply
- Suitable for use both in the lab and in the field

The pH Measuring Kit is suitable for use in many industries and the educational sector, and provides accurate pH measurements and versatile pH data logging capabilities in an easy-to-use package.

### Software overview

The pH Measuring Kit is supplied with the following software:

- PicoLog data acquisition software that transforms your PC into a high-speed data logger.
- Pico programming libraries to interface with the instrument using third-party software such as C, Visual Basic (MS Excel using VBA), Delphi, Agilent VEE and LabVIEW.

PicoLog is a powerful and flexible data acquisition program for collecting, analysing and displaying data over long or short periods of time. It allows you to view data both during and after data collection in spreadsheet or graphical format. You can also export the data to other applications such as Excel.

For users who wish to write their own software or use our products with third-party software, we provide a range of software drivers and examples free of charge. Drivers are included for the following versions of Windows: 98SE, ME, 2000 and XP. Programming examples are supplied for C, Delphi and Visual Basic. There is support for third-party packages including LabVIEW, Agilent VEE and Excel.

### Contents of your pH Measuring Kit

Your pH Measuring Kit contains the following components:

- DrDAQ data logger
- pH electrode DD011
- Temperature sensor DD100
- Parallel cable
- PicoLog software

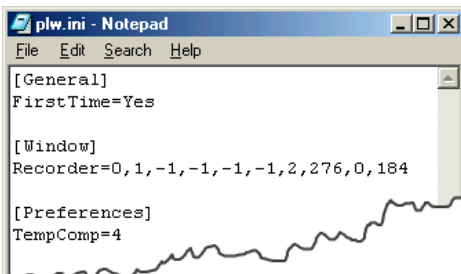
## Getting started

- 1) Please install the software as explained below, *before* connecting the pH Measuring Kit to the PC.
- 2) Insert the Pico Software & Reference CD, and after a delay of a few seconds the Pico installation application should start automatically. If this does not happen, use the following procedure:
  - a. Click on the Windows Start menu.
  - b. Select My Computer, then select the CD drive labelled "PICO" (identified by the rainbow-coloured icon shown on the right), then click on the file named "pico.exe".
- 3) Follow the links in the first two windows, as shown below, to install the software.



- 4) Follow the instructions on the screen to complete the installation, but do not restart the PC yet.
- 5) When the installation program has finished, enable Automatic Temperature Compensation by following this procedure:

- a. Use Notepad to open the text file named plw.ini in your C:\Program Files folder.
- b. Look for a line that contains only the text "[Preferences]". If there is no such line, add a blank line to the end of the file and type "[Preferences]".
- c. Add another blank line immediately after the "[Preferences]" line, and type "TempComp=4".
- d. Check that the "[Preferences]" and "TempComp" lines in your text file now appear as shown in the figure (right), and then save the file.



**Above: your plw.ini file after editing**

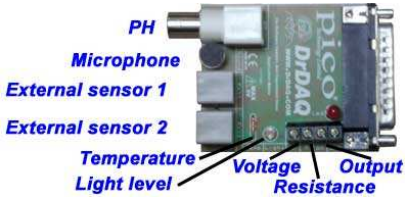
- 6) Now restart the PC.
- 7) Connect the DrDAQ data logger module to the PC's parallel port using the cable supplied.
- 8) Plug the round cable from the pH sensor into the connector on the DrDAQ module labelled "pH".
- 9) Plug the flat cable from the temperature sensor into the connector on the DrDAQ module labelled "Ext1".
- 10) Click on "PicoLog Recorder" in the Windows Start / Programs / Pico Technology menu to begin using the pH data logger.

For more information...

You can find the latest detailed instructions for installing and using the DrDAQ data logger and PicoLog software on our web site at [www.picotech.com/download.html](http://www.picotech.com/download.html). You can also find copies of the manuals on your Pico Software & Reference CD – press the “User Manuals” button, then select “DrDAQ” or “PicoLog”.

DrDAQ connector details

- pH: pH sensor (supplied)
- External sensor 1: temperature probe (supplied)
- External sensor 2: spare input
- Voltage: spare input
- Resistance: spare input
- Output: spare output



pH Measuring Kit specifications

Range (pH)	0 to 14
Resolution	pH: 0.02 pH Temperature: 0.1 °C (at 25 °C)
Accuracy	pH: calibration-dependent Temperature: 2 °C (at 25 °C)
PC connection	Parallel port (cable supplied)
Power supply	From parallel port
Dimensions	pH Logger: 55 x 70 x 20 mm pH Sensor (body): Ø12 x 120 mm
Supplied software	PicoLog data acquisition software Driver and examples (C, Delphi and Visual Basic, LabView, Agilent VEE 6.x and Excel) Software is supplied on CD and is compatible with Windows XP and Vista

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