

Data Logging Package

Details & Specifications

✓ Features

- Portable, battery operated (AAA), with live LCD display
- Capable of 2.1 million measurements before offloading of data
- Programmable sampling interval of 1 second to 18 hours, or START / STOP mode for collecting individual samples
- Continuous data logging launched by pressing black button, or setting time for data to begin logging; button START and STOP for individual samples

✓ Contents

- Four channel data logger, capable of simultaneously recording measurements on O₂ and/or CO₂ channels (shown on right), with LCD display
- 0-10VdC CO₂ analog output installed on analyzer
- 0-5VdC O₂ analog output installed on analyzer
- Cable(s) for connection from analog output of analyzer to data logger (shown on right)
- Software for PC/Mac platforms, licensed for installation on three separate computers
- USB cable
- 21 CFR Part 11 Compliant Software



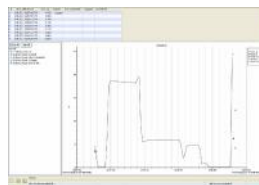
1) Data Logger with LCD display



2) Cabling for 0-5VdC and / or 0-10VdC output (6.3 ft / 1.9m length)



3) USB Cable A Male to B Male (6.3 ft / 1.9m length)



4) Analysis Software for PC/Mac (licensed to install on 3 computers) (larger graph at end of document)

Overview

The Quantek Instruments Data Logging Package includes everything you need for collecting analysis data from our benchtop analyzers. The analyzer is equipped with 0-5VdC oxygen output terminal screws, and 0-10VdC carbon dioxide terminal screws (for analyzers that measure CO₂ as well as oxygen). The data logger is configured at the factory to match the full scale range of the analyzer.

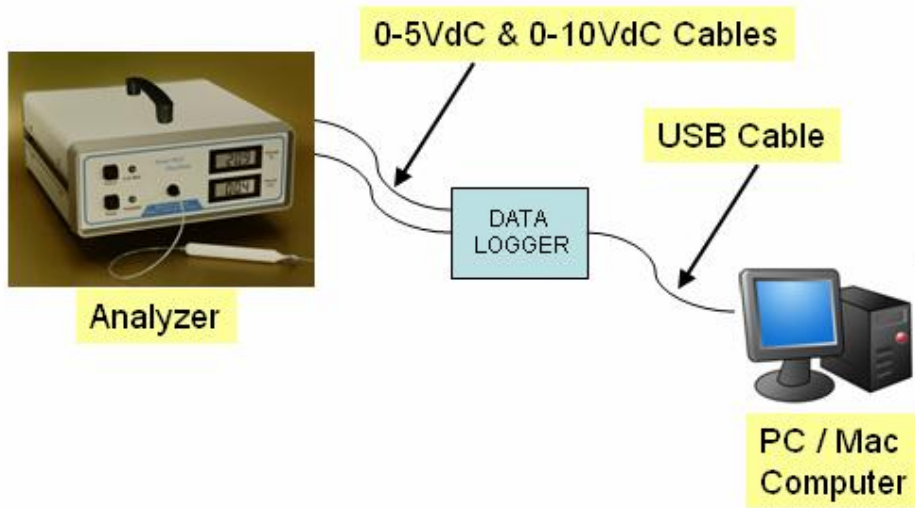
The LCD on the data logger will show the live reading of the instrument and refreshes every 30 seconds, so it is useful as a remote display, and also to verify connectivity to the analyzer. In addition, the data logger will provide resolution beyond what the LCD on the instrument shows:



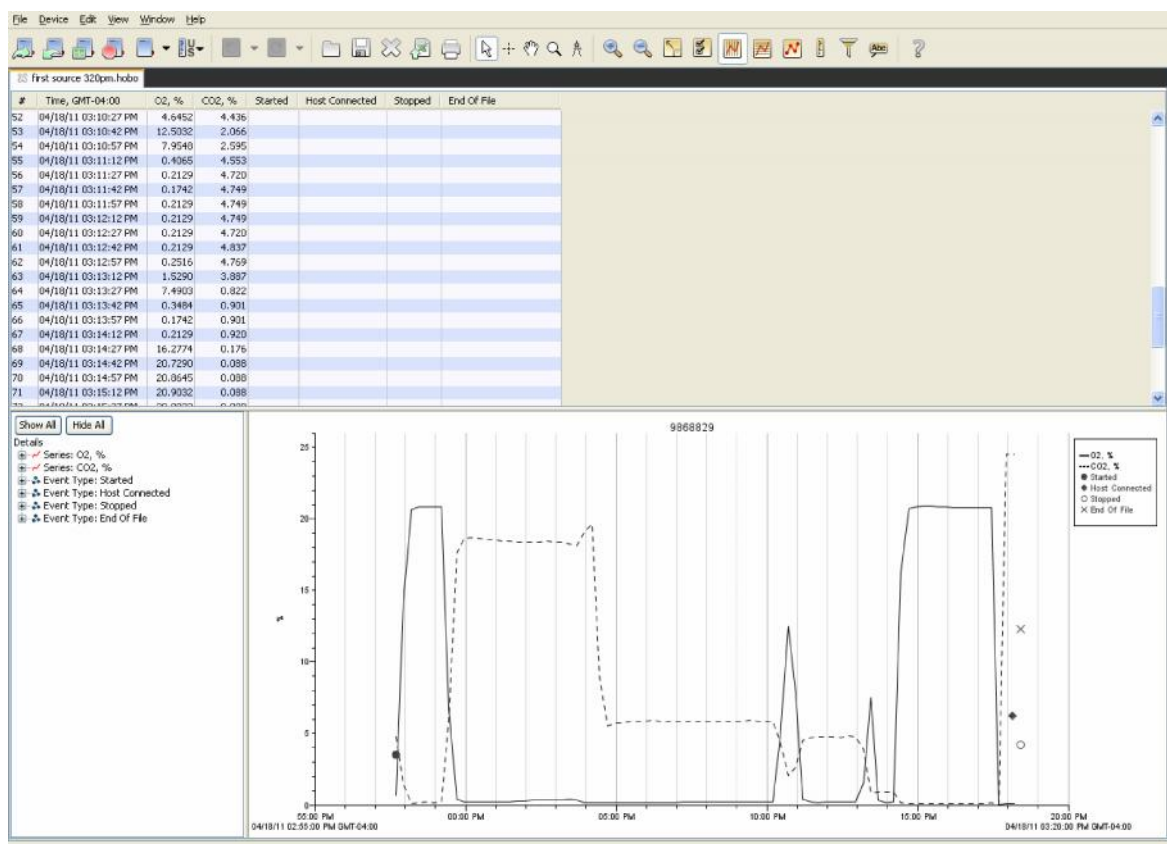
Using the supplied software (included), you can set the data logging interval from 1 second to 18 hours. Once the data logger is programmed, it is attached using the supplied cables and can begin logging automatically or by pressing the black trigger button.

This diagram shows the connections between the analyzer to the data logger. **However, please note that the data logger does not need to be attached to the PC for data collection.**

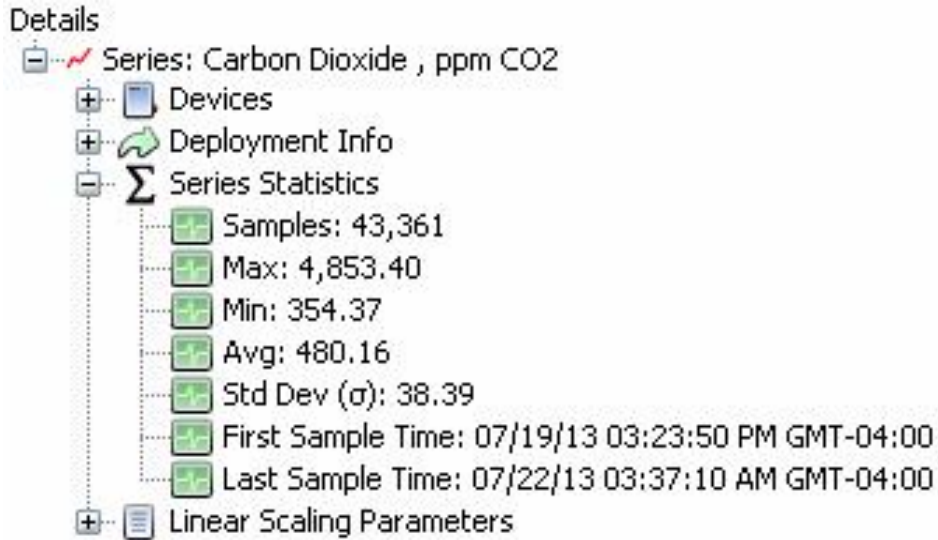
You can also see the live reading within the software if the instrument is not facing you.




Once you are ready to read the data, disconnect the two cables from the data logger and plug it in via USB to your PC. The data will offload and produce a graph. In the example below, the analyzer is measuring both O₂ and CO₂:



The data can also be exported to CSV, txt, or other platform independent files for analysis using other software. Also, within the software, additional statistical information is provided which may be of use:



Technical Specifications

Sample Rate	1 second to 18 hours, user selectable, with push button START and push button STOP modes
Time accuracy	± 1 minute per month at 25°C (77°F)
Operating range	-20 to 70°C (-4° to 158°F)
Humidity range	0 to 95% RH, non-condensing
Battery life	1 year typical use
Memory	64K bytes (43,000 12-bit measurements)
Weight	1.6oz (46g)
Dimensions	2.3 x 2.9 x 0.9 inches (58 x 74 x 22 mm)
Cable Length	6.3ft (1.9m)
Warranty	1 years, parts and labor
Standards	
Included Cabling	One cable (with positive and negative leads) for single channel instruments; two cables for O ₂ / CO ₂ analyzers.
Included Software	Software for PC / Mac platform; enables user to program data logging interval, adjust for VdC scaling, and analyze, export, or graph data. Export capable into flexible file formats (txt, csv).
Origin of Goods	Our products are manufactured in the U.S.A.




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21 CFR Part 11 Compliance: Secure Mode can be enabled which will add a digital signature for your data points; this enables full compliance and data integrity for audit purposes.

▼ Data Verification

Enable Secure Mode Compatible within an environment where 21 CFR Part 11 is being employed.

 In Secure Mode, add a digital signature to saved datafiles upon readout (indicated by .hsec or .dsec extension). This digital signature ensures the integrity of the datafile and will be verified each time the file is opened.

Note: In order to view a full audit trail, you will need to launch and readout devices with Secure Mode enabled.