Appendix 5 GeoGauge Data Download Guide

Humboldt GeoGauge[®] Data Download Guide

For use with C series Humboldt GeoGauge

Purpose

To download data from the C series Humboldt H-4140 GeoGauge to a PC.

Equipment Required

- H-4140.12 Infrared Interface to serial port cable
- USB to serial port adapter (optional)
- Any PC running any version of Windows with HyperTerminal

Operation

Initial Setup

- 1. Attach the GeoGauge Infrared Interface Cable to a 9 pin serial port on the personal computer (PC) or to a USB port via an appropriate adapter (Figures 1, 2 & 3).
- 2. Attach the GeoGauge Infrared Interface Cable reader head to the slotted retainer on the top of the GeoGauge. Be sure that the two infrared windows line up (Figure 4).
- 3. Turn on GeoGauge and PC.
- 4. On the PC monitor, click "Start", highlight "Accessories", click "Communications", and click "HyperTerminal". HyperTerminal is the Windows terminal emulation program.
- 5. Enter a district file name for the GeoGauge download settings. For example. "GeoGaugeDownload". Select an appropriate icon. Click "OK". It is through this new connection setting that all download data can be entered repeatedly without having to re-enter the settings every time.
- 6. In the "Connect To" window, select "connect using". Highlight the COM port to which the Infrared Interface Cable is connected. Click "OK".
- 7. In the "COM Properties" dialog box under the "Port Settings" tab, show.
 - Bits per second: 4800 (for GeoGauge serial numbers less than 326) or 1200 (for GeoGauge serial numbers greater than or equal to 327)
 - Data bits: 8
 - Parity: none
 - Stop bits: 1
 - Flow control: Hardware

Click "OK"; click "File" and then click "Save".

Data Downloading

- 1. Repeat operations 1, 2 and 3 above.
- 2. Double click on the HyperTerminal icon selected earlier.
- 3. In the window that opens, Click "Transfer". Click "Transfer Text". Create a file for the data to be saved in. A new file name will have to be entered for each new download. A unique reference number and date are suggested. The file name <u>must</u> end with ".csv".
- 4. Press the "Shift" key and then the "Print" key on the GeoGauge. Data should be seen streaming onto the screen immediately. The data should look like the example in Figure 4.
- 5. When the data stops streaming, click "Transfer", highlight "Capture Text" and click "Stop". Click "Call". Click "Disconnect". Click "File". Click "Save".
- 7. Confirm that the data was saved by opening the .csv file in Microsoft Excel. Close HyperTerminal. Figure 5 is an example of what a typical .csv file show look like.
- 8. Press the "Shift" key and then the "Erase" key on the GeoGauge. This will permanently erase the data just downloaded.
- 9. Repeat 2 through 8 each time data is downloaded

The .csv files can be "cut & pasted" into an Excel spreadsheet. Humboldt supplies Excel templates for various uses with these files. Contact Humboldt for further information or for help in developing a custom spreadsheet.

Contact: Mahir_Al_Nadaf Humboldt Scientific, Inc., 551D Pylon Dr., Raleigh, NC 27606 U.S.A. Voice: 919.832.6509, Fax: 919.833.5283, Email: mahir@ehumboldt.com



Figure 1 H-4140.12 Infrared Interface To Serial Port Cable



Figure 2 Typical Serial To USB Adapter



Figure 3 GeoGauge Connected To A PC





Figure 5 Typical .csv File First 20 Runs (Records) Will Have All The Data Shown Run 21 & Higher Will Have Only The First Row In Each Record

Copyright 1999-2007 Humboldt Mfg. Co., Norridge, IL. 60706, U.S.A. All rights reserved. Printed in U.S.A.