Data Logging with the 2700 SELECT

I. Introduction

This program is designed to log data from the 2700 SELECT to an ASCII file, on an IBM compatible computer that is running MS-DOS. This program is to be used in conjunction with an external computer that has a serial interface. The 2700 has an RS-232 port located on the back panel of the instrument.

II. How to hook up the 2700 and your computer

You will need a NULL modem cable, as described in the 2700 Manual, Section 9. Connect this cable to the remote port on the back of the 2700. Connect the other end of the cable to a serial port on your computer.

III. How to set up the 2700

Under the MENU mode of the 2700, enter the SETUP menu. First set up the 2700 Chemistries as you normally would under "Measurement Parameters". Next enter the "General" category under the SETUP menu. Under the RS 232 category, the communication parameters can be set.

The following parameters are recommended:

Baud:	1200
Data:	7 bit
Parity:	even
Stop bits:	one
Handshake:	none
Configuration:	non-multidrop

You may now put the 2700 into RUN mode.

IV. Operation of the data logging program

NOTE: [E] will be used in place of enter or carriage return.

A. To start the program, you must first insert the LOG 2700 disk into the disk drive.

B. Type LOG2700, press [E]. In a few moments, the program will load and display the main menu.

C. Use the cursor key to highlight "ComSetup", press [E]. The communication parameters will then appear.

D. Use the cursor keys to change the values. Use the enter key to select and to continue to the next parameter. Parameters 1 - 6 should agree with those parameters set up on the 2700.

E. Parameter 7 - the communications port number must agree with the port used to connect the computer. Example: com1, com2, etc.

F. When all of the communications parameters have been set, press the F10 key to return to the main menu.

G. Use the cursor key to highlight "File", press [E].

H. Use the cursor key to highlight "file specifications". Using the standard MS-DOS file specification format, enter the file name where the sample data are to reside*, press [E]. Next enter the file name where the calibration data are to reside*, press [E]. The main menu screen should now appear.

Example: A:\yourdirectory\yourfile.

* If no disk drive is indicated, by a letter before the file name, then the data will be saved in the drive\directory that you are currently logged.

V. Data logging

First make sure the 2700 is in RUN mode. When you are ready to begin data logging, use the cursor keys to highlight "Start" in the main menu, press [E]. Several windows will appear. The large window in the middle of the screen is where the 2700 data will be displayed. The lower left window provides information as to the program's status. The lower right provides information as to the 2700 status.

The program will begin accumulating any data that resides in the 2700 database. The 2700 database can hold up to 32 sample entries. After all of the data in the 2700 data base has been logged, the program will wait and collect data from the 2700 as it becomes available. The 2700 may begin sampling at this time, if it has not already begun to do so.

When you have finished collecting data, press the escape key to return to the main menu. Press the escape key again to return to the operating system. Once you leave the program, the communications parameters will reset to default. **You will need to reset the communication parameters each time you start the program.**

VI. Troubleshooting

If, when attempting to log data, the screen indicates RUN mode has been terminated:

1. Check all connections.
2. Check the cable type.
3. Check the communication parameters on the 2700 and the computer.
4. Check the 2700 to make sure it has not exited run mode. Use the 2700 SELECT Manual, Section 8, to troubleshoot problems with the instrument.

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