PC LOGGING CLIENT PROGRAM

The program Gulmaylog.exe runs on a PC connected to a Gulmay device via RS232 or ethernet. It retrieves logged data from the device and displays it. The retrieved data can then be saved to a file which can be forwarded for analysis. It can also display previously saved logged data.

Running the program

On startup the program will start retrieving data and you will see details of the device at the top of the program window and text appearing on the lower part of the window. A STOP button will appear in the top right of the window. As data are loaded the various logs become available for display.

If it cannot do so an error "No Gulmay Device responding" is displayed. Acknowledge the error and three buttons will appear in the top right of the window. Click on the COMMS button to select the correct connection to the device (see below) and then LOAD to retry.

When all the data have been loaded The STOP button will disappear and other buttons will appear in the top right of the window.

Saving the data

Clicking on the SAVE button will bring up a file selector for the saved file. All the data are saved in a single file in a text format which can be attached to emails without problems. By default the file will have a .log extension.

COMMS selection

When the COMMS button is clicked a new window appears. The pull down list at the top toggles between RS232 and Ethernet. The other fields change appropriately.

RS232 selection

The pull down list just below the RS232 selection allows the selection of any RS232 port found on the PC, or "Any". If "Any" is selected the program will run through the available RS232 ports until one is found which has a Gulmay device attached and talk to that one. The "Max baud" selection is only used if the Gulmay device attached supports baud rates above 9600. Neither the 12bit RS232 card or the MP1 do.

Ethernet selection

If Ethernet is selected the IP address and port used can be set.

Data Recorded

The sizes and types of logs supported by the Gulmay device are factory set, and the program will retrieve all that is available.

Details of errors, warm ups and significant changes are recorded. In addition when an error occurs, snapshots of a number of parameters are stored in buffers. The logs are cyclic buffers which fill until full and then replace the oldest entry, and hence there is no provision for clearing any logs.

Displaying Data

One log at a time is displayed in a scrolling window. To change the displayed log select a new one using the combo box at the top left of the screen. Options are provided for all the available logs. If data are still being read in priority is given to reading data for the currently selected log.

For the displayed log the number of records read and the total number are shown.

There are two types of logs: text logs where each entry is on a single line and buffer logs where the entire log window display area is occupied by a single buffer entry, largely by a graph of the data. Logs whose display size exceeds the display area may be scrolled to view all parts of the log. All logs other than the Error Histogram are diplayed in time order with the most recent entry at the top of the list.

Text Logs

Each log entry is displayed on a single line. Each line in a log starts with the standard items common across logs. A particular log may have any, all or none of these. Those items it has will be in the order listed. The standard items are follwed by data specific to the particular log.

Buffer Logs

The entire window is filled with a single buffer. The display consists of a line of data items similar to those for logs and a graph. The window may be paged up and down to view all the entries.

The graphs are drawn with the Y axis on the right hand edge. This is because the event which caused the saving of the buffer took place at this time, and the graph is for the time before the event, so the time annotation on the x axis shows time before the trigger event.

Displaying Saved Data

The OPEN button brings up a file selector. The selected file is read and can be viewed in the same way as data retrieved directly from a Gulmay device.

Printing

The PRINT button only prints the data for the currently displayed log.