

INSTRUCTIONS FOR CONFIGURING THE AM400 VERSION 3E Preliminary

The following are instructions for configuring the AM400 Version 3E and later using a serial cable connected to a notebook PC running HyperTerminal software:

STEP 1 – Click on **HyperTerminal** in the Windows **Communications** menu. Then, create a “connection description” for the AM400 as described in “Instructions for Downloading Stored Data Using Windows 98”. This should be done in the office before going into the field. If a connection description has already been created for downloading data, the same connection description can be used for configuration. A connection description only needs to be entered once.

STEP 2 – Using Microsoft **Notepad**, create a file named `cnf.txt` containing a configuration string consisting of the following 5 numeric fields separated by commas and terminated with a carriage return:

FIELD 1 – The position of limit line 1 to be displayed on the average graph. The limit line position is specified in centibars.

FIELD 2 – The position of limit line 2 to be displayed on the average graph. The limit line position is specified in centibars.

FIELD 3 – The maximum allowable difference in centibars between the highest and lowest readings included in the average. If the difference exceeds this value, the average will not be calculated or graphed. However, the graphs and current readings for each individual sensor can still be accessed.

FIELD 4 – The sensors to be included in the average. Readings from any or all sensors can be included in the average. Sensors to be included are specified using a 6 bit binary number with the left bit corresponding to sensor 6 and the right bit corresponding to sensor 1. A “1” in the bit corresponding to a sensor includes that sensor in the average. For example, the binary number 011011 specifies that sensors 1,2,4 and 5 are to be included in the average.

FIELD 5 – The sample rate expressed in hours.

The following is an example of a configuration string file. The file consists of a single line of ASCII characters terminated with a carriage return.

10, 50, 75, 011011, 04

The example configuration string configures the AM400 as follows:

Limit line 1 is positioned at 10 centibars on the average graph.

Limit line 2 is positioned at 50 centibars on the average graph.

The maximum allowable difference between sensor readings included in the average is 75 centibars.

Sensors 1, 2, 4 and 5 are included in the average.

The sample rate equals 4 hours.

STEP 3 - Click on the **AM400** connection description in the **HyperTerminal** menu on the notebook PC.

STEP 4 – Select the **Transfer** menu in the **HyperTerminal** window.

STEP 5 – Select **Send Text File** from the **Transfer** menu.

STEP 6 – Use the browse feature in the **Send Text File** window to select the cnf.txt file containing the configuration string created in STEP 2 (**do not open the file at this time**).

STEP 7 – Remove the front cover from the AM400 and connect the serial cable from the notebook to the AM400.

STEP 8 – Wake up the AM400 by pressing the S1 pushbutton and then press the S2 pushbutton two times to display the configuration upload display. The configuration upload display can be identified by the letters “CB” displayed in the upper left corner of the display.

STEP 9 – On the notebook PC click on **Open** in the **Send Text File** window to upload the configuration string. At this point the parameters displayed in the AM400’s configuration upload window should change.