

QUICK INTRODUCTION

ASTM Test Tool supports two modes of transmission of data :

- Serial Communication.
- TCP/IP.

At any given time only one mode of communication can be active. If TCP/ IP communication is in progress, then the serial communication buttons are disabled.

The screenshot shows the 'Main - ASTM Test Tool' window. It has a menu bar with 'ASTM Test Tool' and 'Help'. The window is divided into several sections:

- Serial Communication:** Includes a 'Port' dropdown set to '12', a status string '(Baud: 9600 Parity: None DataBits: 8 StopBits: 1)', and 'Start' and 'Stop' buttons.
- TCP / IP Communication:** Includes an 'IP Address' field with sub-fields for 192, 1, 1, and 180, a 'Port' field set to 5005, and 'Start' and 'Stop' buttons.
- Transmission:** Includes a 'Sequence' field with 'HQL' and a 'Transmit' button, and a 'Field Delimiter' field with a vertical bar character.
- Record:** Includes a 'Type' dropdown menu and a table with two columns: 'Field' and 'Value'. The table has 10 empty rows.
- Communications:** Includes a 'Verbose' checkbox (which is unchecked) and a large empty text area for logs.

At the bottom of the window are 'Save' and 'Clear' buttons.

SERIAL COMMUNICATION:

The communication settings defaults to 9600 baud, None parity, 8 data bits and 1 stop bits. Select the port number and click on 'Start' button to open the serial port.

TCP/IP COMMUNICATION:

The TCP/IP part of the test tool is programmed to act as a Server. Enter the server IP address and its port number. Then click on 'Start' button. Now the server gets into the listening mode. If there are any clients connected to this server, the 'Transmit' button is enabled.

The communication packets transmitted and received are displayed in the communication window. The user can set the display either in verbose or non verbose mode. Click on the 'Clear' button to clear the content of the communication window. You can save the contents of the communication window by clicking on the 'Save' button.

To get detailed information on the format of the input and output records, please click on the other help topics under Help menu.