



Configuring a PMAT to Collect Serial Data Output

1. Channel Configuration
 - a. Set Comm Port to *Sio Report* for all channels
 - i. Select Channel 1 and enter *Input Programming* menu
 - ii. Set Comm Port to *Sio Report*
 - iii. Repeat for all channels
2. Serial Connection Information
 - a. Baud Rate: 9600
 - b. Data bits: 8
 - c. Parity: none
 - d. Stop Bit: 1
3. Sending a serial string from the PMAT (Only one of the two methods below can be implemented. Follow either *a* or *b* not both)
 - a. Generate Report using command
 - i. Unit operates in half duplex request and reply protocol
 - ii. Send command: **AZK<cr>** (This will cause PMAT to generate a report)
 - iii. Wait until expected response is received
 1. **Do not send anything else before**
 - iv. Repeat to have PMAT continuously generate reports
 - b. Generate Reports Automatically
 - i. Open the *Global Settings* menu by pressing the *Back* button 3 times in quick succession
 - ii. Open the Date and Time settings
 - iii. Set the *Report Rate* to the desired sampling frequency
 1. Fastest the PMAT can handle is one report every 2 seconds
 - iv. Set the *Report Start* to a time after the current Date/Time when you want the PMAT to beginning sending a report
 - v. Once the *Report Start* time is reached the PMAT will continuously generate reports at whatever the report rate is
 1. The *Next Report* should begin updating automatically once this happens
 - vi. To stop PMAT from sending data set *Report Rate* back to 0
4. Serial String Format

For collection to software besides Excel- The data from each channel is output and the pressure reading is the 6th field in each row. At the beginning of each report, there is a triangle turned on its side then a heart. At the end there is a triangle turned on its side then a smiling face:

```
▶♥AZ,00000.01,1, 0.00, 0.00,- 0.1 ,- 0.1 ,00026,X,X,X,X,X,F0
AZ,00000.03,1, 0.00, 0.00, 0.0 , 0.0 ,00010,X,X,X,X,X,11
AZ,00000.05,1, 0.00, 0.00,- 0.0 ,- 0.0 ,00010,X,X,X,X,X,F5
AZ,00000.07,1, 0.00, 0.00,- 0.0 ,- 0.0 ,00010,X,X,X,X,X,F3 ▶☺
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a.