

# Producing Reports

The USM-2 can produce reports by sending data over its RS-232 port.

The reports can be sent to a printer directly, to a computer using a communications port, or to a computer using the Sonic Bolt software, available from Norbar USA.

The report format is designed to be imported into a spreadsheet software for creating graphs and data analysis. Here is an example of what the report looks like:

```
GROUP
HEAT_EXCH_14
COMMENT 1
5 MEG .25 IN
COMMENT 2
STEVE ROGERS
ZERO_FAC 81.8
LAPPROX      STRSFAC    VELO.      TEMPFAC    LFACT.    LOFFSET
7.4          0.275      232000    58.0      1080      0
REFERENCE DATA
BOLTNUM      REFLN      PHASE      GAIN      POS.THR    NEG.THR
1            7.3814    1          158      10        37
2            7.3815    1          157      10        37
3            7.3815    1          156      10        36
4            7.3813    1          158      10        38
ELONGATION REPORT
BOLTNUM      ELONG_A    ELONG_B    ELONG_C    ELONG_D    ELONG_E
1            0.0007    0.0018    0.0025    0.0037    0.0046
2            0.0006    0.0016    0.0027    0.0036    0.0045
3            0.0009    0.0016    0.0027    0.0036    0.0045
4            0.0007    0.0019    0.0028    0.0039    0.0049
LOAD REPORT
BOLTNUM      LOAD_A     LOAD_B     LOAD_C     LOAD_D     LOAD_E
1            724       1933      2743      3953      4936
2            680       1760      2873      3931      4882
3            972       1782      2905      3931      4882
4            799       2009      3024      4255      5270
```

Most modern printers use a parallel printer interface that will not work with the USM-2. It is possible, however, to buy a serial to parallel adapter which will convert the signals from the USM-2 into a parallel cable.

If you use Norbar USA software, configuration of the serial port will be automatic. If you use third party software, you will need to set it as follows: Baud rate 9600, 8 bit data, 1 stop bit, handshaking off.