APPENDIX - B

PROGRAM FOR DC FOUR PROBE RESISTIVITY DATA ACQUISITION

At the beginning of the program, the IEEE-488 driver declaration functions need to be loaded.

```
5       M = 0
6       L = 1
7       NOOFDATA = 6000
10      INPUT "Enter a file name  : " ; A$
15      OPEN "O",2,A$
20      IF (A$ = "q") OR (A$ = "Q") THEN GOTO 3250
50      OPEN "COM2:1200, N,B,I,CS,DS,CD"AS # 1
100     UDNAME$ = "dvm"
200     CALL IBFIND (UDNAME$, DVM%)
400     PRINT " TEMPERATURE", " RESISTANCE","F-VOLTS",
        "R-VOLTS", "SL.NO."
600     IF M > NOOFDATA THEN GOTO 3200
601     BA = &H2E8
602     N = 40
603     OUT BA, N
630     FOR DELAY = 1 TO 5000 !
640     D = 0 !
700     NEXT DELAY
```

```
710         J$ = INKEY$
720         IF (J$ = "Q") OR (J$ = "q") THEN GOTO 3200
800         CALL IBCLR (DVM%)
900         CALL IBTRG (DVM%)
1000        WRT$ = "R2MIT1X" : CALL IBWRT (DVM%, WRT)
1100        RD$ = SPACE $ (18)
1200        CALL IBRD (DVM%,RD$)
1300        D1$ = RIGHT$ (RD$,14)
1400        PRINT # 1, "T"
1410        PRINT #1, CHR$ (13)
1420        PRINT #1, CHR$ (10)
1422        FOR DELAY = 1 TO 5000 !
1424        NEXT DELAY
1430        INPUT #1, TEMPER$
1440        TEMP$ = RIGHT$ (TEMPER$, 5)
1600        CALL IBCLR (DVM%)
1700        WRT$ = "R2M1T1X" : CALL IBWRT (DVM%, WRT$)
1800        BA = &H2EB
1900        N = 43
2000        OUT BA, N
2100        FOR DELAY = 1 TO 1000 !
2200        D = 0 !
2300        NEXT DELAY
2400        RD2$ = SPACE$(18)
2500        CALL IBRD (DVM%, RD2$)
2600        D2$ = RIGHT$ (RD2$, 14)
2635        D21 = VAL (D1$)
2640        D22 = VAL (D2$)
2649        C = 0.01
```