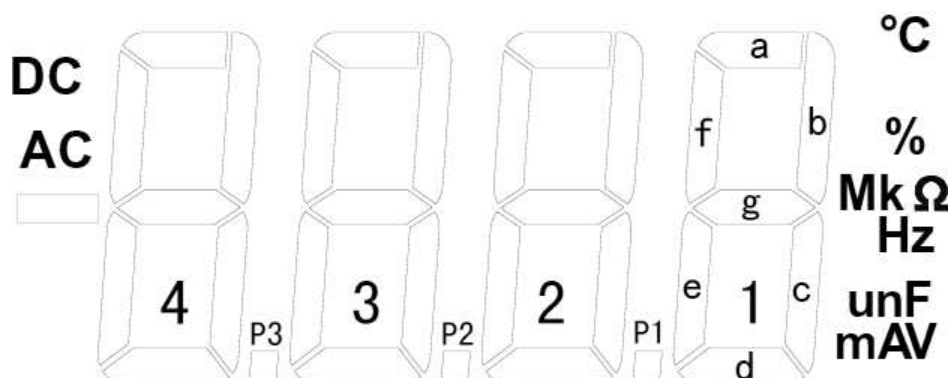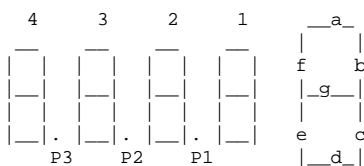ms8226.pdf (Mastech official document)

```
Mastech MS8226 serial protocol

2400 8n1
14 Bytes , watch out for serial IR receiver sending junk 15byte strings

First four bits of each byte are position in message , from 1-14
Last four bits are data , each bit represents one element on LCD


    4       3       2       1     __a_
   __      __      __      __      |   |
  |  |    |  |    |  |    |  |     f   b
  |__|    |__|    |__|    |__|     |_g__|
  |  |    |  |    |  |    |  |     |   |
  |__|.   |__|.   |__|.   |__|     e   c
    P3      P2      P1             |__d_|

Digits
0         10          20          30          40          50   |
01234 5678901 2 3456789 0 1234567 8 9012345 67890123456789012345
00110 1111101 0 0011111 0 0100111 1 1111111 00000000000000000100 034.8
00110 1111101 0 1011011 0 0111110 1 0011111 00000000000000000100 025.3
00110 1111101 0 1011011 0 0100111 1 0011111 00000000000000000100 024.3
00110 1111101 0 1011011 0 0000101 1 0111111 00000000000000000100 021.9
00110 1111101 0 1011011 0 0000101 1 0010101 00000000000000000100 021.7
00110 1111101 0 1011011 0 0000101 1 1111110 00000000000000000100 021.6
|||||  4444444 P 3333333 P 2222222 P 1111111 ||||||||||||||||||||
       efadcgb 3 efadcgb 2 efadcgb 1 efadcgb    d i s p l a y

Display
```

```
0         10        20        30        40        50     |
012345678901234567890123456789012345678901234567890123455
0011011111010000010111111101000001010100000010000001000 nF
0011010110111000010100000101010110111000000010000001000 uF
0111011111011111110101111101011111101000000000010001000 A
0111011111010111110111111101011111101000010000001001000 mA
0111011111010111110101111101011111110110000000010001000 uA
0011011111010101101100111110110110110000000000000000100 C
0001000001010000010100111111111111110000000000000101000 Hz
0001011111010111111010111110100111110000010000100001000 %
0001000000000111110101101000100000000000010000001000 Ohm
0001000000001111110101101000000000000100000010000001000 KOhm
0001000000001111110101101000000000000000010010000001000 MOhm
0001000000001111110101101000000000000010000000001001000 Diode
0001000000001111110101101000100000000000001010000001000 Beep
0101111111010000010100000101101111100000010000001001000 mV
0111111111011111111010111110101111101000000000001001000 V
0111011111010111111010111110101111101000000000101001000 Hold
0101111111010111111010111110101011110100000000001001001000 Rel
ADAR-||||||||||||||||||||||||||||||||||unKDm%MBFORHAVHXXCXX
CCUS        d  i  g  i  t  s           i   e hEo  z
  T2                                   o   e mLl
  O3                                   d   p  d
   2                                   e
```

51 is probably low battery