13. RS232 Transmission Protocol
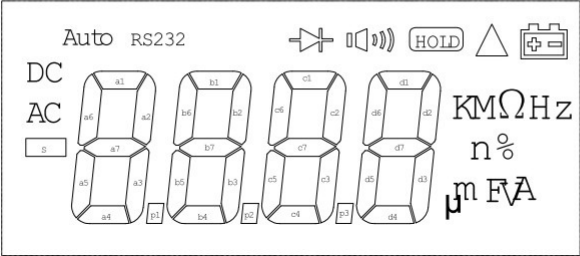
13.1 Direction: One-way to computer.
13.2 Serial Transer Rate: 2400 bps
13.3 Data Bit: 8 bit.
13.4 Odd and Even Calibration: No
13.5 Data Decimal: Hex
13.6 Data Length: 14 Bytes.
13.7 Data Information: LCD table on-off information.
13.8 Data Format: 1st byte → 1X (X is seg1, 4 bits represent the data on the LCD table)
2nd byte→ 2X (X is seg2, 4 bits represent the data on the LCD table)
3rd byte → 3X (X is seg3, 4 bits represent the data on the LCD table)
and so on
1X → 4 bit, 2X→ 4 bit, 3X→ 4 bit
……………
EXH→ 4it
13.9 X means: Bit3～Bit 0→ segn (COM4—COM1)
13.10 Sampling Rate: 40KHz
13.11 ADC Output Frequency: 40Hz
13.12 ADC Output Frequency After Average: 10Hz
13.13 Output Frequency After Auto-Zero: 4Hz

14. LCD Display -- (C2=LCDC2, C1=LCDC1)

9711_LP3 LCD DISPLAY AND FORMAT

PIN / COM	1 COM4	2 COM3	3 COM2	4 COM1	5 SEG1	6 SEG2	7 SEG3	8 SEG4	9 SEG5	10 SEG6	11 SEG7	12 SEG8	13 SEG9	14 SEG10	15 SEG11	16 SEG12	17 SEG13	18 SEG14
COM1				COM1	RS232	a1	a2	b1	b2	c1	c2	d1	d2	⊸⊩	◖◖))	HOLD	⊞⊟	C2_C1 = 0_0
COM2			COM2		Auto	a6	a7	b6	b7	c6	c7	d6	d7	K	M	△	Hz	C2_C1 = 0_1
COM3		COM3			DC	a5	a3	b5	b3	c5	c3	d5	d3	n	%	Ω	V	C2_C1 = 1_0
COM4	COM4				AC	s	a4	p1	b4	p2	c4	p3	d4	μ	m	F	A	C2_C1 = 1_1