

VC-840 RS232 PROTOCOL

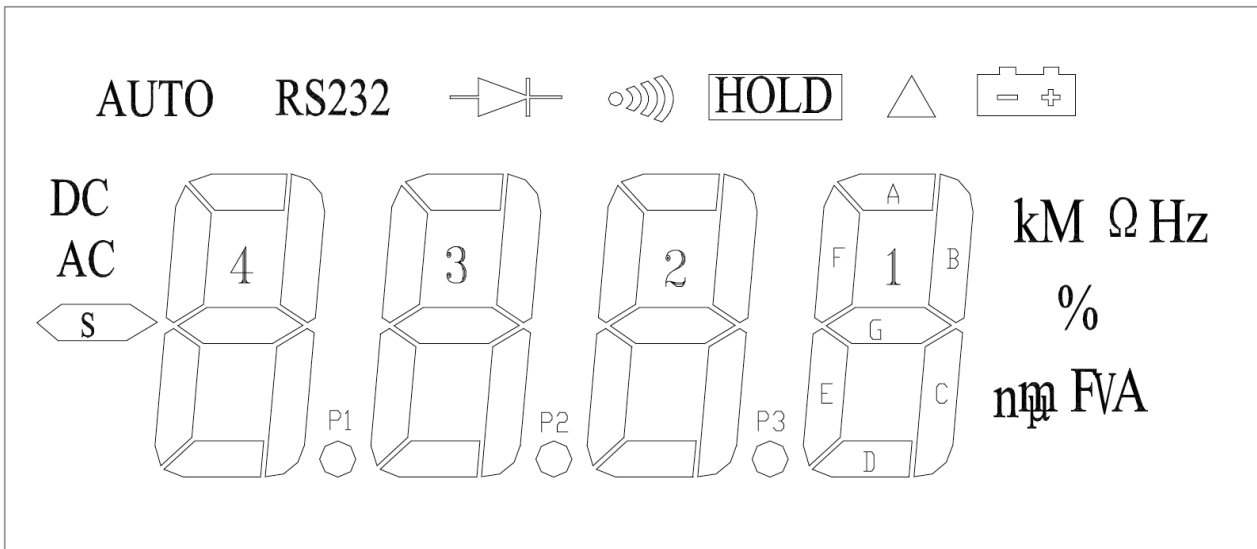
Nº 12 11 12



VERSION 05/09

GENERAL:

The output of the RS232 corresponds to the data shown on the LCD display.



TECHNICAL DATA:

Direction:	Single Direction (Output Only)
Baud Rate:	2400 bps
Data Position:	8 bit
Parity Check:	None
Data Format:	HEX
Data Length:	14 Bytes
Data Information:	LCD segments on-off
Sampling Rate:	40 kHz
ADC Output Frequency:	40 Hz
After ADC Average Value Output Frequency:	10 Hz
After Auto-Zero Output Frequency:	4 Hz
Data Format:	1X ₁ 2X ₂ 3X ₃ 4X ₄ 5X ₅ 6X ₆ 7X ₇ 8X ₈ 9X ₉ AX _A BX _B CX _C DX _D EX _E

1st byte → 1X₁ (X₁ represents COM 4 → COM 1 of SEG 1)
 2nd byte → 2X₂ (X₂ represents COM 4 → COM 1 of SEG 2)
 3rd byte → 3X₃ (X₃ represents COM 4 → COM 1 of SEG 3)
 ...
 14th byte → EX_E (X_E corresponds to COM 4 → COM 1 of SEG 14)

X_n corresponds to the SEG_n (COM 4 → COM 1), active HIGH (ON = 1, OFF = 0)

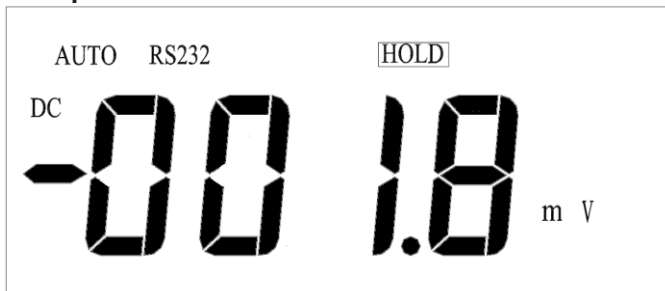
PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
COM	COM4	COM3	COM2	COM1	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12	SEG13	SEG14
COM1				COM1	RS232	A4	B4	A3	B3	A2	B2	A1	B1			HOLD		C2_C1 0_0
COM2			COM2		AUTO	F4	G4	F3	G3	F2	G2	F1	G1	k	M	Δ	Hz	C2_C1 0_1
COM3		COM3			DC	E4	C4	E3	C3	E2	C2	E1	C1	n	%	Ω	V	C2_C1 1_0
COM4	COM4				AC		D4	P1	D3	P2	D2	P3	D1	μ	m	F	A	C2_C1 1_1

Remarks: SEG 14 does not contain any useful information on the RS232 output for VC-840.

Additional Information:

Symbol	Description	Symbol	Description
	Low Battery Indicator	HOLD	Hold Function
AUTO	Automatic Mode	Δ	Relative Measuring Function
AC	Alternating Voltage or Current	mV, V	Units of Voltage
DC	Direct Voltage or Current	μ A, mA, A	Units of Current
	Negative Symbol	Ω , K Ω , M Ω	Units of Resistance
RS232	RS232 Output	nF, μ F	Units of Capacitance
	Diode Test	Hz, KHz, MHz	Units of Frequency
-))	Continuity Buzzer	%	Duty Cycle

Example #1:



RS232 output: 17 2F 3D 47 5D 60 75 8F 9F A0 B8 C1 D4 E8

Example #2:



RS232 output: 15 25 3B 40 55 67 7D 8F 9E A0 B0 C0 D1 E1