

6000-count PowerClamp™ Series Communication Protocol

*COM Port Communication Protocol:

(Baud rate, Parity, Data bits, Stop bit) = (2400, N, 8, 1)

Operation of Activating RS232 Output:

Press and Hold "Hz button" and then slide the "Slide Switch" to the function position where is expected for data logging.

Recommended program flow.

1. Initiate COM port
2. Wait for 100ms
3. Set (baud rate, parity, data bit, stop bit) = (2400, N, 8, 1)
4. Locate 16 RXD buffers
5. Clear RXD buffers
6. Check & read RXD buffers
7. Decode 16 RXD buffers (see Figure 1 & Table 1)
8. Repeat 5~7 to get next reading

Figure 1

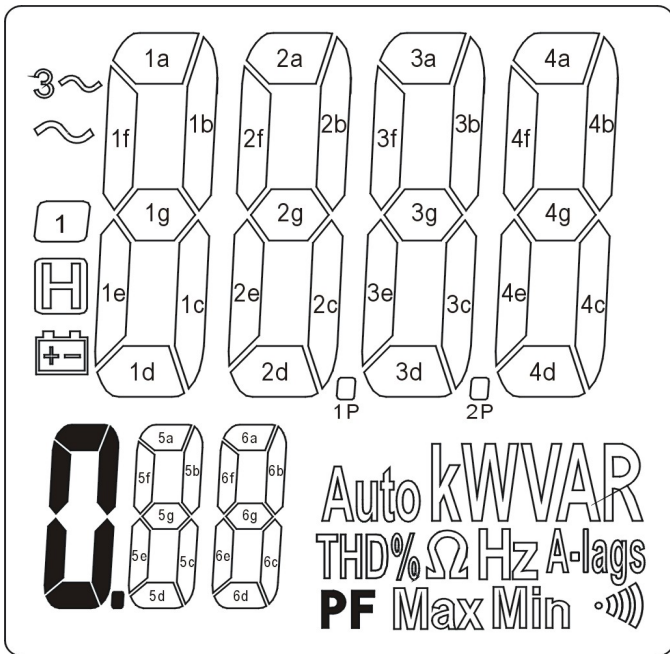
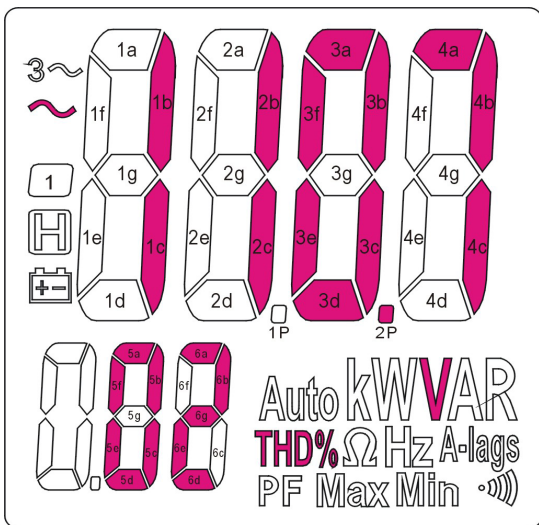


Table 1. LCD Map

NO.	bit7:4	bit3	bit2	bit1	bit0
1	0000	1	1e	1f	1a
2	0001	Hz	Hz	~	3~
3	0010	A-lags	2e	2f	2a
4	0011	1d	1c	1g	1b
5	0100	1p	3e	3f	3a
6	0101	2d	2c	2g	2b
7	0110	2p	4e	4f	4a
8	0111	3d	3c	3g	3b
9	1000	+PF	5e	5f	5a
10	1001	4d	4c	4g	4b
11	1010	%	6e	6f	6a
12	1011	5d	5c	5g	5b
13	1100	Max	Ω	k	Auto
14	1101	6d	6c	6g	6b
15	1110	THD	·))	R	A
16	1111	Min	Hz	V	W

Example: While LCD reading is "AC 110.7V with 2% of THD%-F", 16 data bytes are "00H, 12H, 20H, 35H, 47H, 55H, 69H, 7DH, 87H, 95H, ADH, BDH, C0H, DBH, E8H, F2H"



NO.	bit7:4	bit3	bit2	bit1	bit0	HEX format
1	0000	0	0	0	0	00H
2	0001	0	0	1	0	12H
3	0010	0	0	0	0	20H
4	0011	0	1	0	1	35H
5	0100	0	1	1	1	47H
6	0101	0	1	0	1	55H
7	0110	1	0	0	1	69H
8	0111	1	1	0	1	7DH
9	1000	0	1	1	1	87H
10	1001	0	1	0	1	95H
11	1010	1	1	0	1	ADH
12	1011	1	1	0	1	BDH
13	1100	0	0	0	0	C0H
14	1101	1	0	1	1	DBH
15	1110	1	0	0	0	E8H
16	1111	0	0	1	0	F2H