

TC0304/ TC0309 PROTOCOL OF SERIAL INTERFACE

BAUDRATE: 9600

PARITY: none

DATA BITS: 8

STOP BITS: 1



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cs@perfectprime.com



TC0304/ TC0309 Protocol

COMMAND A:

1st BYTE:

The first byte is the start byte, it value is 2.

2nd BYTE:

bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0
C/F	Low Bat	Hold	REL	T1-T2	MAX/MIN		Recording

bit0: 1->now is recording, 0->not recording

bit 2 bit 1

0 0 ->normal mode

0 1 ->MAXIMUM mode

1 0 ->MINIMUM mode

1 1 -> calculate MAX/MIN in background and lcd "MAX""MIN" will flash.

bit3:1 ->LCD now is displaying T1-T2.

bit4:1->REL

bit5:1- HOLD 0->not HOLD

bit6:1->LOW BATTERY 0->BATTERY NORMAL

bit7:1->C 0->F

3rd BYTE:

bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0	
Auto Off							MemFull	

Bit7:1->Auto power off enabled.

4th BYTE: T1_Statedb ?;5th BYTE: T2_statedb ?;6th BYTE: T3_statedb ?;7th BYTE: T4 statedb ?;

8th BYTE and 9th BYTE:

For example: 8th and 9th byte are 0x01 0x02 then channel 1 will be 0x0102 that is 258 in decimal, then divided by 10, that is 25.8 degree

10th BYTE and 11th BYTE:

For example: 10th and 11th byte are $0x01\ 0x02$ then channel 2 will be 0x0102 that is 258 in decimal , then divided by 10 , that is 25.8 degree

12th BYTE and 13th BYTE:

For example: 12th and 13th byte are 0x01 0x02 then channel 3 will be 0x0102 that is 258 in decimal, then divided by 10, that is 25.8 degree

14th BYTE and 15th BYTE:

For example: 14th and 15th byte are $0x01\ 0x02$ then channel 4 will be 0x0102 that is 258 in decimal, then divided by 10, that is 25.8 degree



16th BYTE and 17th BYTE:

When you press the REL key to read the value of channel 1, the solution is the same as above

18th BYTE and 19th BYTE:

When you press the REL key to read the value of channel 2, the solution is the same as above

20th BYTE and 21st BYTE:

When you press the REL key to read the value of channel 3, the solution is the same as above

22nd BYTE and 23rd BYTE:

When you press the REL key to read the value of channel 4, the solution is the same as above

24th BYTE and 25th BYTE:

When you press the MAX/MIN key to read the minimum value of channel 1, the solution is the same as above

26th BYTE and 27th BYTE:

When you press the MAX/MIN key to read the minimum value of channel 2, the solution is the same as above

28th BYTE and 29th BYTE:

When you press the MAX/MIN key to read the minimum value of channel 3, the solution is the same as above

30th BYTE and 31st BYTE:

When you press the MAX/MIN key to read the minimum value of channel 4, the solution is the same as above

32nd BYTE and 33rd BYTE:

When you press the MAX/MIN key to read the maximum value of channel 1, the solution is the same as above

34th BYTE and 35th BYTE:

When you press the MAX/MIN key to read the maximum value of channel 2, the solution is the same as above

36th BYTE and 37th BYTE:

When you press the MAX/MIN key to read the maximum value of channel 3, the solution is the same as above

38th BYTE and 39th BYTE:

When you press the MAX/MIN key to read the maximum value of channel 4, the solution is the same as above

40th BYTE: Channel_OL_Set; 41st BYTE: Rel_OL_Set; 42nd BYTE: Max_OL_Set; 43rd BYTE: Min_OL_Set; 44th BYTE: Channel X1 X10

45th BYTE:

The last byte is the end byte, it value is 3, first and last byte are used to check frame error.

For example: 8th and 9th byte are 0x01 0x02 then T1 will be 0x0102 that is 258 in decimal, then divided by 10, that is 25.8 degree