# DMM Communication Protocol

## 一、Communication characteristics

- § Compatible USB isolated serial communication interface.
- § Baud rate：2400bps，8 data bits，No parity，1 stop bit.

## 二、Communication protocol

ı Answer Data Format


data： 14 Bytes Hex‘1X2X3X4X5X6X7X8X 9XAXBXCXDXEX’

**Data analysis**

1X(Hex)byte description：

=X.0(Hex)：indicate the char RS232

=X.1(Hex)：indicate the char AUTD

=X.2(Hex)：indicate the char DC

=X.3(Hex)：indicate the char AC

2X(Hex)byte description：

=X.0(Hex)：indicate the char a thousand digit digital tube

=X.1(Hex)：indicate the char f thousand digit digital tube

=X.2(Hex)：indicate the char e thousand digit digital tube

=X.3(Hex)：indicate the char ’+’or ‘-’

3X(Hex)byte description：

=X.0(Hex)：indicate the char b thousand digit digital tube

=X.1(Hex)：indicate the char g thousand digit digital tube

=X.2(Hex)：indicate the char c thousand digit digital tube

=X.3(Hex)：indicate the char d thousand digit digital tube

4X(Hex)byte description：

=X.0(Hex)：indicate the char a hundred digit digital tube

=X.1(Hex)：indicate the char f hundred digit digital tube

=X.2(Hex)：indicate the char e hundred digit digital tube

=X.3(Hex)：A decimal point in front of a hundred digit digital tube

5X(Hex)byte description：

=X.0(Hex)：indicate the char b hundred digit digital tube

=X.1(Hex)：indicate the char g hundred digit digital tube

=X.2(Hex)：indicate the char c hundred digit digital tube

=X.3(Hex)：indicate the char d hundred digit digital tube

6X(Hex)byte description：

=X.0(Hex)：indicate the char a ten digit digital tube

=X.1(Hex)：indicate the char f ten digit digital tube

=X.2(Hex)：indicate the chare ten digit digital tube

=X.3(Hex)：The decimal point in front of the ten bit digital tube

7X(Hex)byte description：

=X.0(Hex)：indicate the char b ten digit digital tube

=X.1(Hex)：indicate the char g ten digit digital tube

=X.2(Hex)：indicate the char c ten digit digital tube

=X.3(Hex)：indicate the char d ten digit digital tube

8X(Hex)byte description：

=X.0(Hex)：indicate the char a single digit digital tube

=X.1(Hex)：indicate the char f single digit digital tube

=X.2(Hex)：indicate the char e single digit digital tube

=X.3(Hex)：Denotes a decimal point in front of a bit digital tube

9X(Hex)byte description：

=X.0(Hex)：indicate the char b single digit digital tube

=X.1(Hex)：indicate the char g single digit digital tube

=X.2(Hex)：indicate the char c single digit digital tube

=X.3(Hex)：indicate the char d single digit digital tube

AX(Hex)byte description：

=X.0(Hex)：indicate diode

=X.1(Hex)：indicate the char k

=X.2(Hex)：indicate the char n

=X.3(Hex)：indicate the char u

BX(Hex)byte description：

=X.0(Hex)：indicate BEEP

=X.1(Hex)：indicate the char M

=X.2(Hex)：indicate the char %

=X.3(Hex)：indicate the char m

CX(Hex)byte description：

=X.0(Hex)：indicate the char HOLD

=X.1(Hex)：indicate the char REL

=X.2(Hex)：indicate the char Ω

=X.3(Hex)：indicate the char F

DX(Hex)byte description：

=X.0(Hex)：indicate battery

=X.1(Hex)：indicate the char Hz

=X.2(Hex)：indicate the char V

=X.3(Hex)：indicate the char A

EX(Hex)byte description：

=X.0(Hex)：empty

=X.1(Hex)：indicate the char ℃

=X.2(Hex)：indicate the char mV

=X.3(Hex)：empty

The code of the digital tube is as follows：