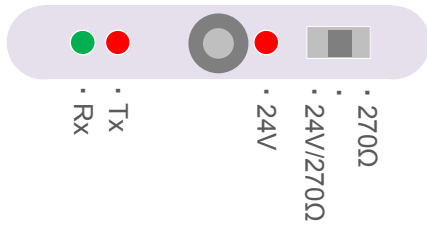


## 使用说明书

### ① 产品外观

#### 顶部面板



#### Rx 灯

闪烁：接收到仪表数据  
长亮：异常，参考“常见问题”一节

#### Tx 灯

闪烁：往仪表发送数据  
长亮：异常，参考“常见问题”一节

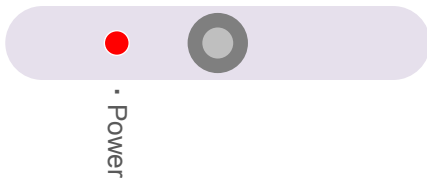
#### 24V 灯

长亮：24V 正在输出

#### 控制开关

A : ( 24V/270Ω ) 输出 24V，并自动串入了 270Ω 电阻  
B : ( 中间空挡 ) 不输出 24V，不使用 270 欧姆电阻  
C : ( 270Ω ) 仅串入 270 欧姆电阻

#### 底部面板



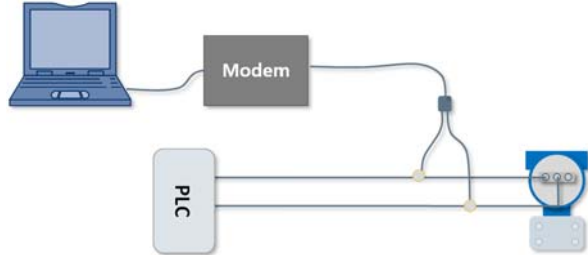
### ② Modem 连接仪表

#### 方式 A 直接使用 Modem 内置 24V 供电



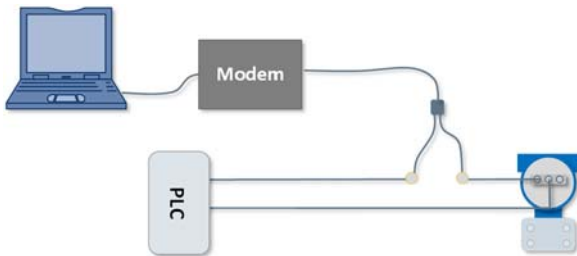
- 控制开关拨到位置“24V/270Ω”，注意 24V 输出的正负极性
- 此用法为典型用法，能避免复杂的接线和工况
- 因四线制仪表具有独立的供电接口，请勿用 Modem 给其供电
- ！ 不要连接 PLC 和外置电源，避免冲突和故障

#### 方式 B 不使用内置 24V 电源以及内置环路电阻



- 控制开关拨到中间位置
- 变送器已连接 PLC 时可使用此方式
- Modem 直连到仪表电流环端子，不区分正负极
- PLC 供电环路干扰大或环路电阻不足 250 欧姆时，建议继续使用方式 A 或 C

#### 方式 C 环路电阻不足时，使用内置 270 欧姆电阻



- 控制开关拨到位置“270Ω”
- Modem 串联到仪表环路，不区分正负极
- 环路电阻不足 250 欧姆时，可使用此方式

### ③ 查看 Modem 串口号

#### 安装驱动

- 确定电脑的操作系统类型是 X86 还是 X64 ( 开始菜单->右键点击“计算机”->点击“属性”->查看“系统类型” )
- 在光盘中找到对应的驱动，如果是 64 位操作系统，安装 CP210xVCPInstaller\_x64.exe，如果是 32 位操作系统，安装 CP210xVCPInstaller\_x86.exe
- 驱动安装后，建议重启一次电脑。

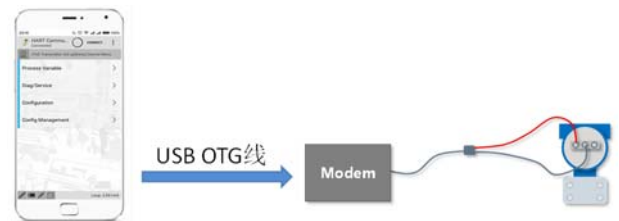
#### 查看串口号

开始菜单->右键点击“计算机”->点击“管理”->点击“设备管理器”->双击“端口 ( COM 和 LPT )”，串口驱动的名称如下方框所示，以 Silicon labs 开头，下图示例的串口为 COM4。



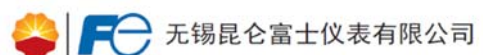
### ④ 安卓 HART 软件使用(仅 FXW 支持安卓 APP)

- 使用附带的 USB OTG 线连接 Modem 和手机
- 在产品外壳上扫二维码或输入网址获取安卓 APP
- 使用 APP 进行仪表的扫描和调试



### ⑤ 常见问题

- 启动时 24V 灯不亮
  - 为了安全起见，设备启动时，如果 24V 开关处于使能状态，24V 输出并不会起作用。
  - 将控制开关拨到其它档位再拨回到“24V/270Ω”位置即可使能 24V。
- 扫描不到仪表
  - 如果表头没亮，说明连线有问题，请重新检查连线。
  - 请检查开关位置是否正确。
  - 驱动安装后是否重启了一次电脑。
  - HART 软件是否选择了正确的 COM 端口号。
  - 联系厂家帮助解决。

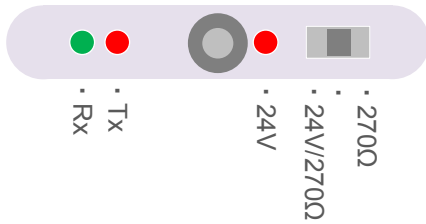


地址：江苏省无锡市新吴区新畅南路9号  
电话：0510-85210916 传真：0510-85210996  
邮编：214028  
网址：www.lanlianfuji.com

## Operating Instruction

### ① Panel

#### • Top



#### Rx LED

Flash : Receiving data from transmitter  
Solid : Abnormal, refer to "FAQ"

#### Tx LED

Flash : Sending data to transmitter  
Solid : Abnormal, refer to "FAQ"

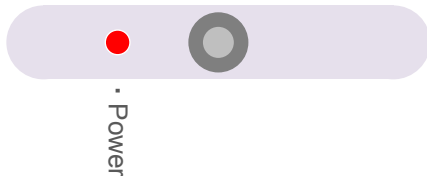
#### 24V LED

Solid : Outputting 24V DC

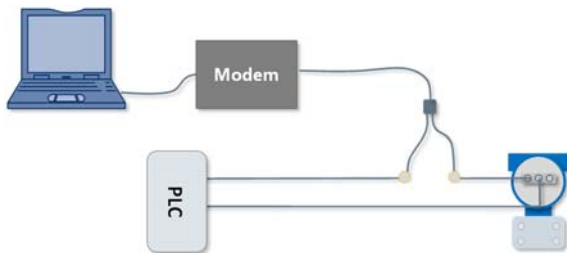
#### Switch

A : ( 24V/270Ω ) Enable 24V DC output and built-in resistor  
B : ( NULL ) Disable 24V and built-in resistor  
C : ( 270Ω ) Disable 24V, enable built-in resistor

#### • Bottom



#### • Type C, wire resistance < 250Ω



- Connect in loop in series, Polarity insensitive
- Toggle switch to right (270Ω) position
- This method can be used when the loop resistance is less than 250 ohms.

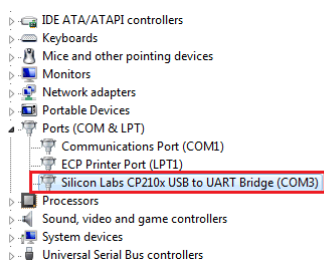
### ③ Check COM No. of the Modem

#### • Install Driver

1. Check your system type firstly as below: "Start" -> Right-click "Computer" -> Click "Properties" -> "System"
2. Find USB HART Modem driver in the CD, if your system is X64 Edition, install CP210xVCPInstaller\_x64.exe, otherwise install CP210xVCPInstaller\_x86.exe.

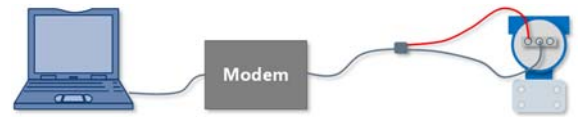
#### • Check COM No.

Click "Start" -> Right-click "Computer" -> Right-click "Manage" -> Click "Device Manager" -> Double-click "Ports(COM&LPT)", The driver which is labeled begin with "Silicon Labs" is the USB HART Modem driver, Port No. is COM3 in this example.



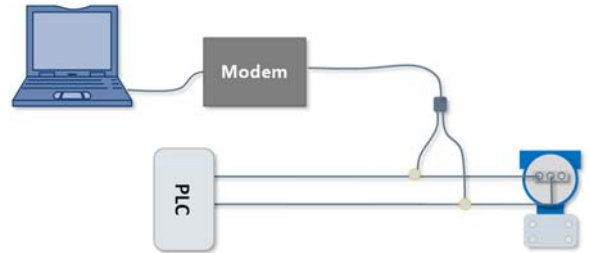
### ② Connection

#### Type A, Use the built-in power supply.



- Set switch to the position "24V/270Ω", pay attention to the positive and negative polarity of the 24V output.
- This is typical usage , avoids complex wiring and conditions
- Because the four-wire meter has an independent power supply interface, do not use Modem to power it.
- ! Do not connect PLC and external power supply to avoid conflicts and malfunctions

#### Type B, Field power supply, Wire resistance > 250Ω



- Connect modem to transmitter power terminals, Polarity insensitive
- Toggle switch to middle position
- Use this mode when the transmitter is connected to the PLC
- When the PLC power supply loop has large interference or the loop resistance is less than 250 ohms, it is recommended to continue using mode A or C.

### ④ Android App ( FXW Only )

- Step1: Scan QR code or input URL on the product shell to download app.  
Step2: Use USB OTG line to connect android phone and modem.  
Step3: Scan and set the instrument using the APP



### ⑤ FAQ

#### • 24V LED off when start

- For security, modem will not keep 24V DC outputting after reset even though the toggle switch is at "24V/270Ω" position. Please reset toggle switch

#### • Scan no transmitter

- If the transmitter LCD does not light up, Please check the connections.
- Misuse built-in resistor, Please check resistor toggle switch.
- Restart computer after driver installation.
- HART software choose the right COM port.
- Contact us.



Address: No. 9 Xinchang South Road, Xinwu District, Wuxi City, Jiangsu Province  
Tel: 0510-85210916 Fax: 0510-85210996  
Code: 214028  
website: www.lanlianfuji.com