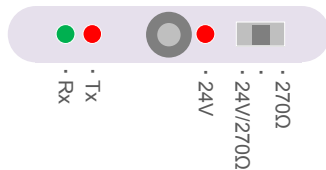


① Hart Modem Panel

• Top Panel



- 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

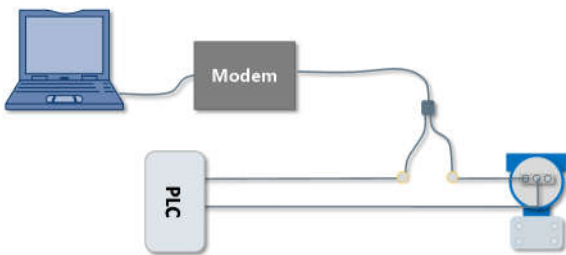
B : (NULL) Disable 24V and built-in resistor

C : (270Ω) Disable 24V, enable built-in resistor

• Bottom Panel

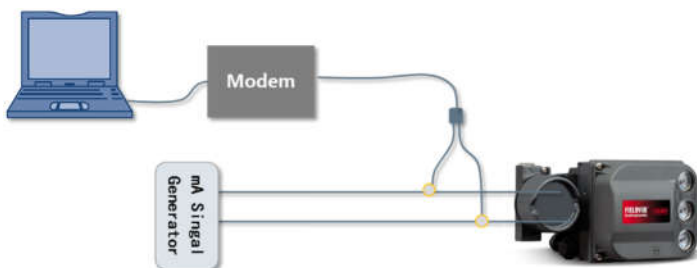


• Type C, wire resistance < 250Ω



- 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 Connect Valve



- Toggle modem switch to middle position
- Power the valve (Loop+/Loop- Pin) use signal generator

④ Install Drivers & Software

- Download http://doc.hartcomm.cn/modem/cn/01_drivers install, then restart pc
- Plug modem into USB port , wait installation complete
- Right-click "Computer" -> "Manager" -> "Device Manager" . Port No. is COM20 in this example as shown below picture
- Install HART softwares http://doc.hartcomm.cn/modem/en/02_hart_tools

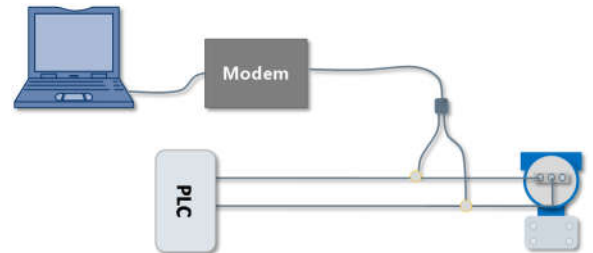
② Connect Transmitter

Type A, Use the built-in power supply.

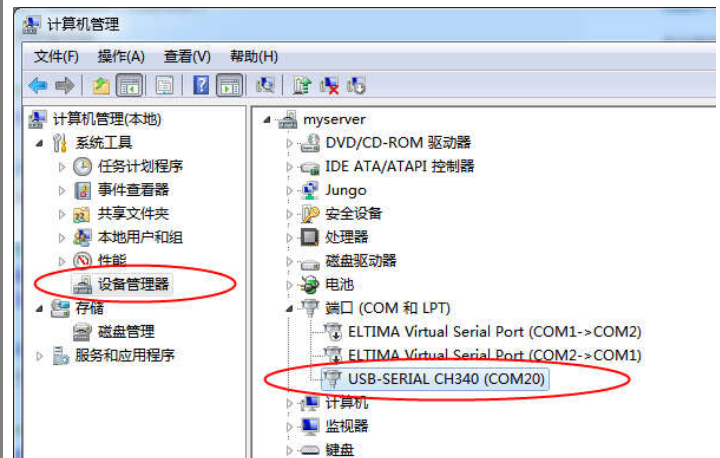


- Set switch to the position "24V/270Ω", pay attention to the positive and negative polarity of the 24V output.
- This is typical usage , avoids complex wiring and conditions
- Because the four-wire meter has an independent power supply interface, do not use Modem to power it.
- ! Do not connect PLC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

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

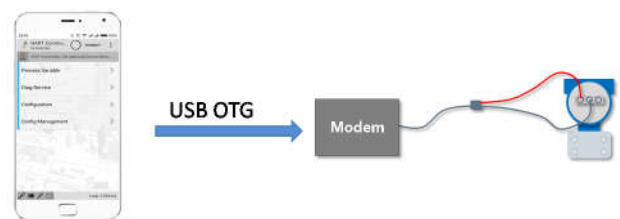


- Connect modem to transmitter power terminals, Polarity insensitive
- Toggle switch to middle position
- Use this mode when the transmitter is connected to the PLC
- When the PLC power supply loop has large interference or the loop resistance is less than 250 ohms, it is recommended to continue using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



⑤ Android App (M295 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.



⑥ FAQ

- 24V LED off when Plug usb
 - 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.