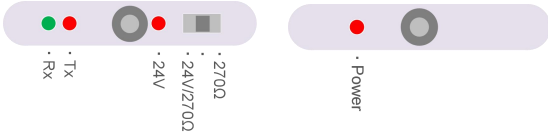


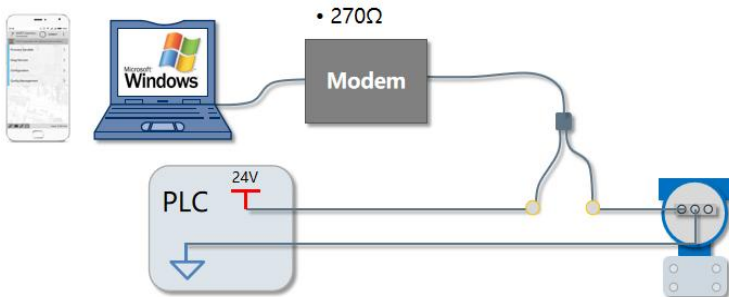
Product Standard	GB/T 29910.1 ~ 6-2013
Power IN	DC 4.5~5.5V
Power OUT	21.6V/ 45mA
Interface	USB ESD 6KV
Protection	HART 1.5KV Isolation
Dimensions	88mm x 61mm x 14mm
Weight	150g
Environment	Temperature -40~+85 °C , Humidity 0%~95 %RH

① Keys and Indicators



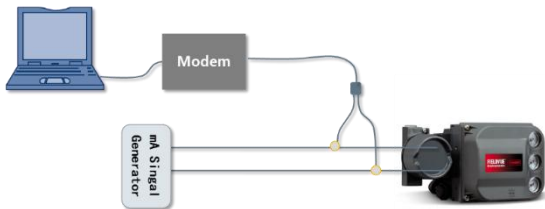
- **Rx LED**
ON: Receiving data from transmitter
- **Tx LED**
ON: Sending data to transmitter
- **24V LED**
ON: Outputting 24V DC
- **POWER LED**
ON: USB Power ON
- **Switch**
A: (24V/270Ω) Enable 24V DC output and built-in resistor
B: (NULL) Disable 24V and built-in resistor
C: (270Ω) Disable 24V, enable built-in resistor

• 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



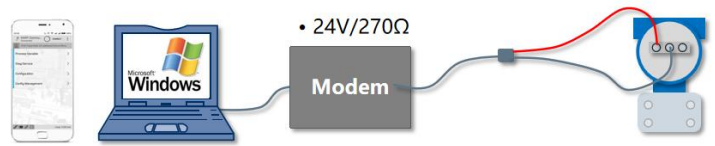
- Toggle modem switch to middle position
- Power the valve (Loop+/Loop- Pin) use signal generator

④ Install Drivers & Software

- Enter <http://doc.hartcomm.cn/modem/en/>
- Enter 01_drivers, download, install
- Plug modem into USB port, wait installation complete, then restart pc
- Right-click "Computer" -> "Manager" -> "Device Manager". Port No. is COM3 in this example as shown below picture
- Install HART softwares from 02_hart_tools

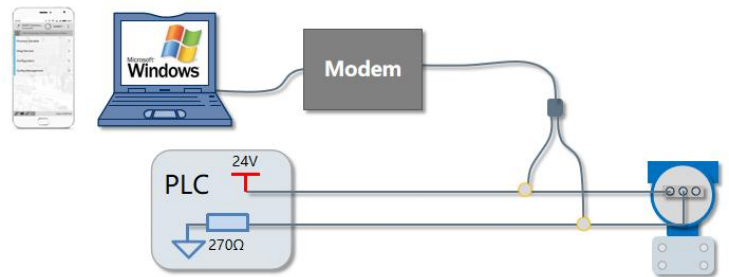
② Connect Transmitter

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

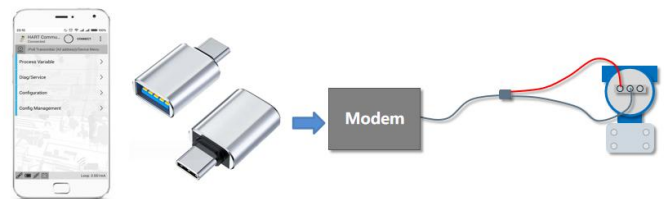
Type B, Field power supply, Wire resistance > 250Ω



- 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

- If the instrument cannot be scanned, self-check options:
- transmitter support HART?
 - Positive and negative poles connected correctly?
 - Switch position correct?
 - Restart the computer after the driver installation?
 - HART software select the correct COM port?