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Make network communication more reliable

# MODEL485P

## Wall Mounting

## RS-232 to RS-485/422 Interface Converter

- Support bidirectional data conversion between 1 RS-232 serial port and 1 RS-485/422 serial port

- Unique serial port self-adaption technology, which can identify RS-485/RS-422 serial port automatically without setting the switch

- RS-485/422 port adopts independent external power supply, and provides 2500V photoelectric isolation protection

- Adopt pre-emphasis technology, the communication distance of RS-485 is up to 1800m (115200bps)

- Serial port provides 1500W surge protection and 15kV electrostatic protection

- RS-485/422 port provides optional connection ways, including RJ45, DB9M and 5-pin terminal blocks
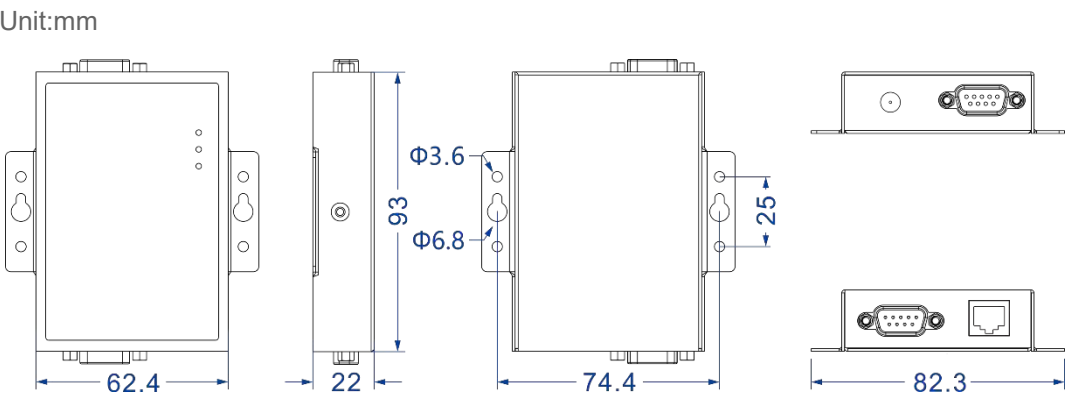
CE    FCC    RoHS

# Introduction

MODEL485P is a RS-232 to RS-485/422 interface converter that can achieve bidirectional conversion between RS-232 and RS-485/422. It provides 1 RS-232 serial port and 1 RS-485/422 serial port. The RS-485/422 supports serial port self-adaption technology that can identify RS-485/422 serial port automatically without the need of setting the switch. Serial ports are equipped with 1500W surge protection, 15kV electrostatic protection and 2500V photoelectric isolation protection, which can effectively avoid surge and lightning strike. The device also adopts wall mounting, which can meet the requirements of different scenes.

Hardware adopts fanless, low power consumption, wide temperature and voltage design. It can be wildly used in indoor and outdoor system like attendance, entrance guard, cloud platform control, food selling and parking lot, etc.

# Dimension

Unit:mm



# Specification

| Serial Port | Standard: EIA RS-232C, RS-485, RS-422 |
|---|---|
| | Serial port quantity: 1 RS-232 serial port, 1 RS-485/422 serial port |
| | RS-232 signal: TXD, RXD, GND |
| | RS-485 signal: 485+, 485-, GND |
| | RS-422 signal: T+, T-, R+, R-, GND |
| | Baud rate: 110bps~115200bps |
| | Data bit: 8bit |
| | Stop bit: 1bit, 1.5bit, 2bit |
| | Check bit: None, Odd, Even, Mask, Space |
| | Interface type: RS-232 serial port, adopts DB9, Female； RS-485/422 serial port, adopt 5-pin 5.08mm pitch terminal blocks, DB9 Male or RJ45 |

| | |
|---|---|
| | Transmission distance: RS-232 serial port, 15m；<br>　　　　　　　　　　RS-485/422 serial port, 1800m (115200bps)<br>Direction control: RS-485 adopts automatic data flow control technology which can detect and control data transmission direction automatically<br>Load capacity: RS-485 supports 32-point polling environment (128-point could be customized)<br>Interface protection: 1500W surge protection, 15kV electrostatic protection<br>Photoelectric isolation: 2500V |
| LED Indicator | Power supply indicator, serial port data sending/receiving indicator |
| Power Requirement | 9VDC, DC round head<br>RS-232 port obtains power from the TXD, RTS, DTR signal of RS-232 |
| Power Consumption | Static power consumption: ≤70mA<br>Dynamic power consumption (mean): ≤200mA |
| Environmental Limit | Operating temperature: -20~75℃<br>Storage temperature: -25~85℃<br>Relative humidity: 5% ~ 95%(no condensation) |
| Physical Characteristic | Housing: metal, IP30 protection<br>Installation: wall mounting<br>Dimension (W x H x D): 62.4mm×22mm×93mm<br>Weight: 200g |
| Certification | CE, FCC, RoHS |
| Warranty | 3 years |

# Ordering Information

| Available Models | RS-232 | RS-485/422 | Power Supply |
| --- | --- | --- | --- |
| MODEL485P | 1 | 1 | 9VDC |

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