# Datasheet

## Model485P

**Features**

1. 9VDC power input, 2500V optical isolation
2. Plug-and-Play (hot-pluggable, data format auto-sensing & self-adjusting)
3. Data direction auto-turnaround, no flow control is necessary
4. 1500W surge protection, 15KV ESD protection
5. 1800m transfer distance (115200bps)
6. RS-485/RS-422 connector RJ45, DB9M or 5 bit terminal block

## Introduction

Model485P is a high performance, more function RS-232/485/422 interface converter. The product configure out connect power, optoelectrical isolation more than 2.5KV. Have small volume, far transmission distance, high rate, steadily performance and so on. It is abroad used in industry control system, It is an interface convert product that have good between performance to price. Adopt itself adapt interface technique, no use for setup switch.

## Specification

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-232 signal:</td>
<td>TX, RX, GND</td>
</tr>
<tr>
<td>RS-422 signal:</td>
<td>T+, T-, R+, R-, GND</td>
</tr>
<tr>
<td>RS-485 signal:</td>
<td>D+, D-, GND</td>
</tr>
<tr>
<td>Working mode:</td>
<td>Asynchronism, point to point or multi point, 2 wire half-duplex,4 wire full duplex</td>
</tr>
<tr>
<td>Baud rate:</td>
<td>300~115200bps, auto test serial signal rate detect signal speed automatically, zero delay time</td>
</tr>
<tr>
<td>Flow control:</td>
<td>Data direction auto-turnaround, no flow control is required</td>
</tr>
<tr>
<td>Transfer distance:</td>
<td>RS-485/422 side: 1.8Km, 115200bps</td>
</tr>
<tr>
<td></td>
<td>RS-232 side: no less than 5m</td>
</tr>
<tr>
<td>Max number of drops:</td>
<td>128 nodes</td>
</tr>
<tr>
<td>Optical isolation:</td>
<td>2500V</td>
</tr>
<tr>
<td>Port protect:</td>
<td>1500W surge protection, 15KV ESD protection</td>
</tr>
</tbody>
</table>

## Power

- **Power input:** 9VDC power input
- **Consumption:** Static less than 120mA, dynamic less than 350mA

## Environment

- **Operating temperature:** -10°C to 60°C
- **Storage temperature:** -40°C to 85°C
- **Humidity:** 5% to 95%(no condensation)

## Appearance

- **Dimensions:** 93.0mm×62.4mm×22.0mm
- **Material:** Iron(shell)
- **Color:** White
- **Weight:** 200g
- **Warranty:** 5 years
- **Approvals:** FCC, CE, RoHS approvals

## Applications

1. **RS232 to RS485 mode option(DB9):**

![Figure 1: Extending the RS232 data distance in RS485 mode](image)

### Quality Link Connections

www.telkolink.com | Perpa Ticaret Merkezi A Blok No.516 Sisli-Istanbul | Tel: 0212 3204030
Figure 2: Master/Slave multi-drop configuration in RS485 mode

2. RS232 to RS422 mode option(DB9):

Figure 3: Extending the RS232 data distance in RS422 mode

Figure 4: Master/Slave multi-drop configuration in RS422 mode

Dimension

Packing List

1. Model485P×1
2. 9VDC power adapter ×1
3. Separate terminal block(DB9F to 5 bit) ×1
4. User manual ×1