Industrial Class Wall-mounted Photoelectric Isolation Converter

**ATC-105**

**RS-232 TO RS-485/RS-422 interface**

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### Feature

- **Interface feature:** Compatible with EIA/TIA RS-232C, RS-485/RS-422 standard
- **Electric interface:** RS-232C is DB9 Female, RS-422/RS-485 is four bit terminals
- **Transmission media:** Twisted-pair cable or shielded cable
- **Operation mode:** Asynchronous half or full duplex
- **Signal indication:** 3 signal indication lights indicate TD RD and PWR
- **Power supply:** RS-232 is serial port power theft, RS-422/485 is power converter
- **Isolation:** Isolation voltage 3500VRMS 500VDC sequence
- **Protecting grade:** RS-232 interface 600W lightning strike and surge protection, RS-422, RS-485 interface 1000W lightning strike and surge protection on each line
- **Transmission speed:** 0-115.2kbps
- **Transmission distance:** 0-5 km
- **Working environment:** -20℃ to 70℃, 5% to 95% relative humidity
- **Product appearance:** Plastic shell 76mmx54mmx23mm

### Introduction

ATC-105 Isolation Interface Converter is compatible with RS-232C, RS-422, RS-485 standards and capable of converting single end RS-232 signal into RS-422 or RS-485 signal of balanced signal. The built in photoelectric isolator can offer 3500V isolation voltage and the rapid Transient Voltage Suppressor (TVS) can effectively inhibit lightning and ESD, prevent lightning strike and common code interference.

Connect PC, IPC, or portable computer via a DB9 female connector at RS-232 interface, and connect RS-422, RS-485 end via convenient 4-bit terminal. The RS-485 supports dual-line half duplex. The inner circuit of ATC-105 Photoelectric Isolation Interface Converter can detect data direction and switch to control it automatically, conveniently to form a RS-485 network without any shake hand signal. This kind of RS-485 control is fully transparent and need no software amendment for the former working modes basing on RS-232.

ATC-108 Photoelectric Isolation Interface Converter can provide credible connection for point to point, point to multi-point communication. The point to multi-point allows connecting 128 RS-422 or RS-485 interface devices with data transmission speed of 0-115.2Kbps. The 3 power supply and data flow indication light can indicate malfunction. It supports communication modes including RS-232C to RS-422, RS-232 to RS-485 conversion.

### Application

- **Point to point, point to multi-point communication**
- **Industrial distribution system, industrial control automation**
- **Road traffic control automation**
- **Closed circuit monitoring**
- **Security protection system**
- **Intelligent card, check on work attendance gate safety system**

### Order information

**ATC-105**

RS-232 to RS-422/485 Isolation Interface Converter (DB9)

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**Contact us**

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