

## INTRODUCTION :

RS-232 interface is a standard communication port in the computer and many other terminal systems. And it is very popular communication interface in control systems, building access control systems, office automation systems, time recording systems, barcode systems, POS systems ... etc. However, RS-232 has limitation in transmission distance (50 feet typically) so it can not be flexibly used in long distance control systems. Now we support RS-485 **smart converter** for RS-232 interface devices. The so-called "**smart converter**" means that you don't need to change any specification of your existing systems, and your software with RS-232 protocol still can be used as well.

## FEATURES :

- RS-232 interface converted to RS-485 interface for long distance connection
- Automatically switching Transmitting and Receiving
- LED's to show communication status
- Baud rate selectable 9600 or 19200
- One converter supports up to 255 terminal devices
- Communication distance up to 1000 meters ( must be AWG #24, #22, #18 ... individually shielded multiple pair cable )
- Don't need to change any specification of your existing systems
- Your software with RS-232 protocol still can be used

## APPLICATIONS :

- PC to PC communication
- PC to terminal devices
- Any long distance connection

## SPECIFICATIONS :

- **Communication :**  
Half-duplex, 1 start bit, 8 data bits, no parity  
Baud rate 9600/19200 selectable
- **Power Supply :** DC 9 ~ 12 V, 300mA
- **Dimensions :** 69 x 53 x 22 mm
- **RS-232 Interface Connector :**  
D-sub 25 pins female connector
- **RS-485 Interface Connector :**  
Screw type terminal block 4 pins
- **Environment :**  
Operating Temp : 0 ~ 55 Deg. C  
Storage Temp : - 10 ~ 55 Deg. C  
Humidity : 10 ~ 90 % relative

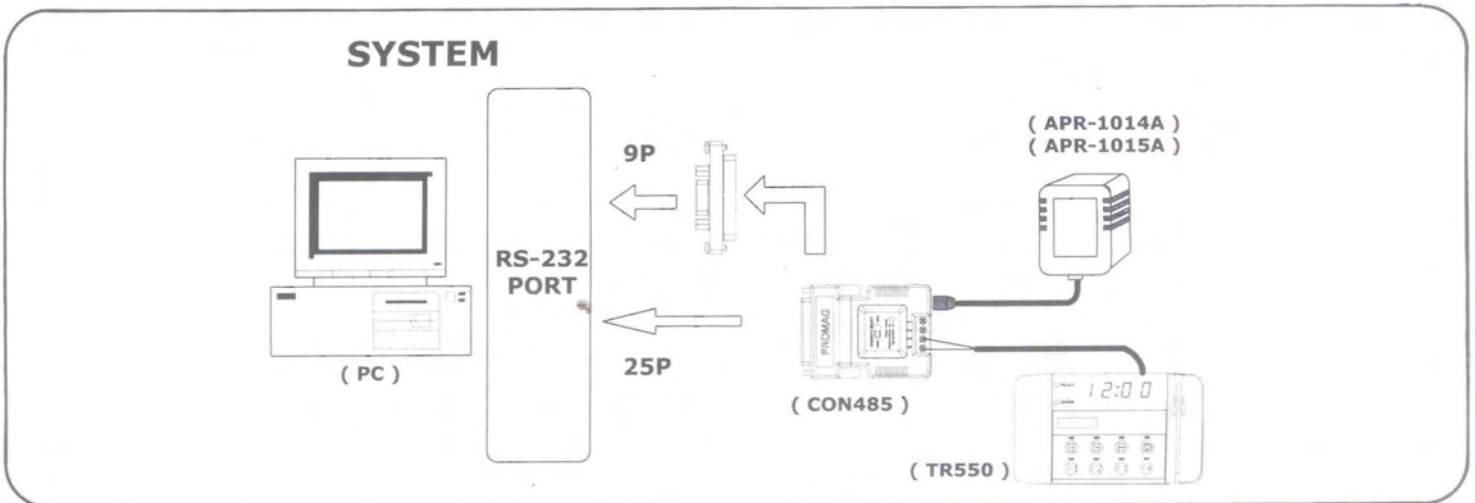
## AVAILABLE MODELS :

- CON485 : for TR550 with RS-485 connection
- CON485 : for TR510 with RS-485 connection
- CON422/485 : for AC9100 with RS-485
- CON422/485 : for TR52x /TR534 with RS-422

## Remarks :

1. CON485 is an RS-232 to RS-485 smart converter so that you don't need to change any specification of your existing systems, and your software which is with RS-232 protocol still can be used as well.
2. CON422/485 is RS-422 / RS485 mode selectable. Select RS-422 for RS-232 to RS-422 converter and your software which is with RS-232 protocol still can be used without any change. Or select RS-485 for RS-232 to RS-485 converter but your software must be with RS-485 communication protocol.

Note : The Specification is subject to change without notice.



We welcome OEM inquiries

- ★ Custom design manufacturing is available.
- ★ Custom programming of the device is available.
- ★ Call factory for other configurations.



集佳股份有限公司  
GIGA-TMS INC.

8F, NO. 31, LANE 169, KANG-NING  
STREET, HSI-CHIH, TAIPEI, TAIWAN

TEL : 886-2-26954214  
FAX : 886-2-26954213  
886-4-5388836

E-mail: gigatms@ms3.hinet.net  
http://www.gigatms.com.tw

**PROMAG™**

**CON422/485**

**RS232-RS422/485 INTERFACE CONVERTER**



### GENERAL DESCRIPTION

RS-232 interface is a standard communication port in PC and other control system. And it is a very popular communication interface in control system, building access control system (AC9100), office automation system, time record system (TR500) barcode system, POS system.... etc. However, RS-232 has many limitations in transmission speed and distance, so it can not be flexibly used in high speed and long distance control system. Now we support RS422/485 interface converter for RS-232 communication system. You don't need to change any specification of your system.

### SPECIFICATIONS

#### RS232-RS422/RS485 INTELLIGENT INTERFACE CONVERTER

- RS-232 high data rate up to 120k baud under load
- RS-232 interface connector: D-SUB 25 pins female connector
- Dimension 69mm × 53mm × 22mm
- Environmental 0 to 50 degree C, 0 to 90% RH
- Power source 9V/200 mA DC adapter or through RS-232 interface pin #9 (+12V)
- RS-422/RS-485 mode selectable
- Supports up to 31 units.
- Programmable control TX or RX by RTS/CTS (RS-485)
- RS-422/485 up to 100k bps under 4000 feet (AWG #24, #22, #18..... individually shield multiple pair cable)

### INPUT / OUTPUT TERMINAL AND SWITCH DESCRIPTION

#### RS-232 D-SUB 25 PINS CONFIGURATION:

| PIN | DESCRIPTION                                      |
|-----|--|
| 2   | TXD  |
| 3   | RXD  |
| 4   | RTS - short with #5 to control signal (485 only) |
| 5   | CTS - short with #4                              |
| 6   | DSR - short with #20                             |
| 7   | GND -signal ground                               |
| 9   | DC power input (DC 9-12V)                        |
| 20  | DTR - short with #6                              |

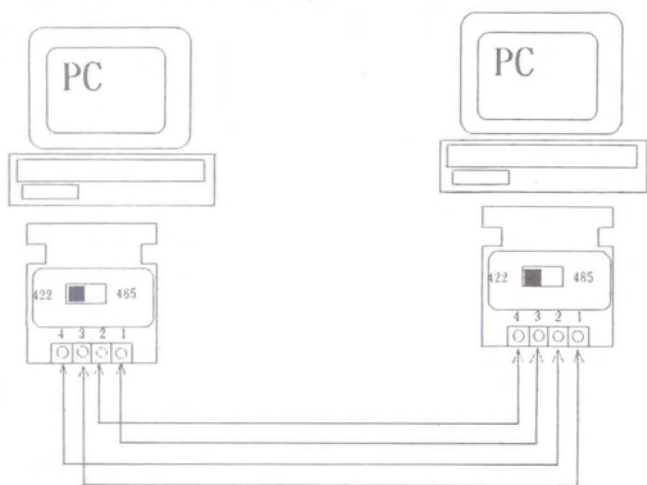
#### SWITCH SETTING TO RS-422

| PIN | DESCRIPTION |
|-----|-------------|
| 1   | TX +        |
| 2   | TX -        |
| 3   | RX +        |
| 4   | RX -        |

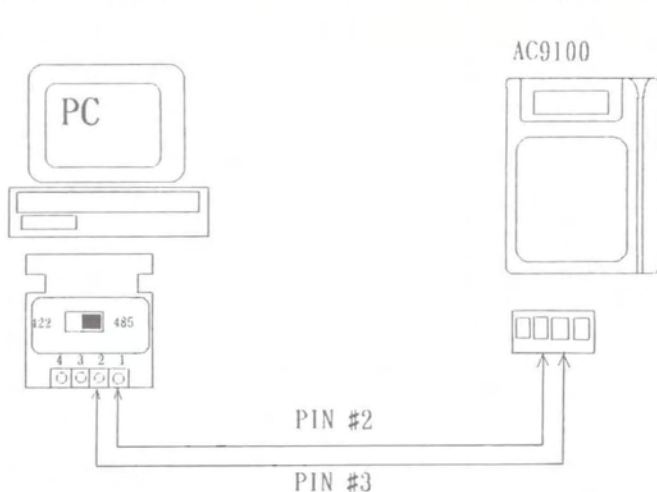
#### SWITCH SETTING TO RS-485

| PIN | DESCRIPTION |
|-----|-------------|
| 1   | TX/RX +     |
| 2   | TX/RX -     |
| 3   | NOP         |
| 4   | NOP         |

#### PC TO PC (RS-422)



#### PC TO AC9100 ACCESS CONTROL (RS-485)



We welcome OEM inquiries

- ★ Custom design manufacturing is available.
- ★ Custom programming of the device is available.
- ★ Call factory for other configurations.



集佳有限公司  
GIGA-TMS INC.

8F, NO. 31, LANE 169, KANG-NING STREET, HSI-CHIH, TAIPEI, TAIWAN

TEL : 886-2-26954214  
FAX : 886-2-26954213  
886-4-5388836

E-mail:gigatms@ms3.hinet.net  
http://www.gigatms.com.tw