9 Quality Assurance and A/S

1 Scope of warranty

The warranty period for this product is one year from the date of purchase.
Warranty does not apply if you belong to the following items
- normal wear and tear
- if the product is opened or repaired by an unauthorized person
- if the product is abused
- if the product is exposed to humidity or heat
- If user doesn't follow user guidance

2 Request a warranty

If defects arise during the warranty period, you must contact the manufacturer or return the product to the manufacturer, along with a description of the defective product, to the address provided by the manufacturer. If the warranty claim is valid, the manufacturer will repair and return the product.

3 Limitation of liability

The manufacturer and supplier are not responsible for any malfunction or damage to the equipment, either directly or indirectly, and the total liability of the manufacturer and supplier is limited to the total amount paid for the product.

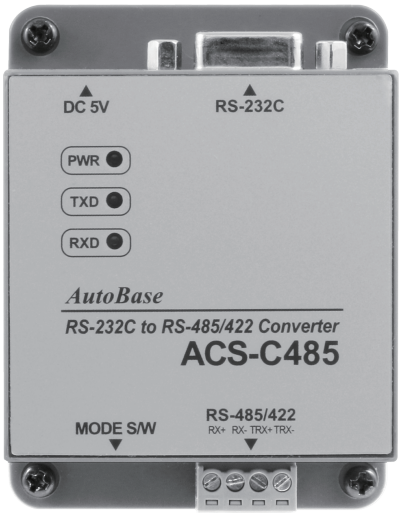
4 Legal Rights

If the warranty is limited, limitation of liability does not affect the statutory rights specified by national laws regarding the sale of products.
The warranty limit can not be transferred to another person. The Warranty Limitation is superseded by any other warranties express or implied, written or oral.

Autobase Converter

ACS-C485/ACS-C485I

CD-ACS-C485



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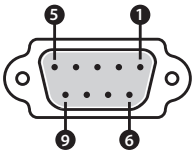
1 ACS-C485/ACS-C485I Specifications

Specifications	
Communication mode	Asynchronous Serial Communication
RS-485/422 mode	Point to Point, Multi-Drop
*Opto-Isolation	±3.7KV (Strong for external electrical shock)
Maximum communication speed	460kbps
Maximum communication distance	1.2Km, When using the 24AWG twisted pair cable
Connector	RS-232C : DB9 Female
	RS-485/422 : Terminal Block 4 Pin
Signal line	RS-232C : TXD, RXD, RTS, DTR
	RS-422 : TXD+, TXD-, RXD+, RXD-
	RS-485 : TRXD+, TRXD-
Deep switch	Select RS-485/422, Terminating resistance ON/OFF(200Ω),
	Pull-up/Pull-down ON/OFF
Power	No power : Supplied from RS-232C TXD, RTS, and DTR signals
	Power : Using USB Type DC power DC5V adapter or USB power
Protective device	Static electricity protection : Contact ±8KV, Air ±15KV
	Surge shock absorption : 24A, 600W
System requirements	Operating temperature : -40~85℃

*Opto-Isolation function is only supported for ACS-C485I model.

2 RS-232C I/O Connector

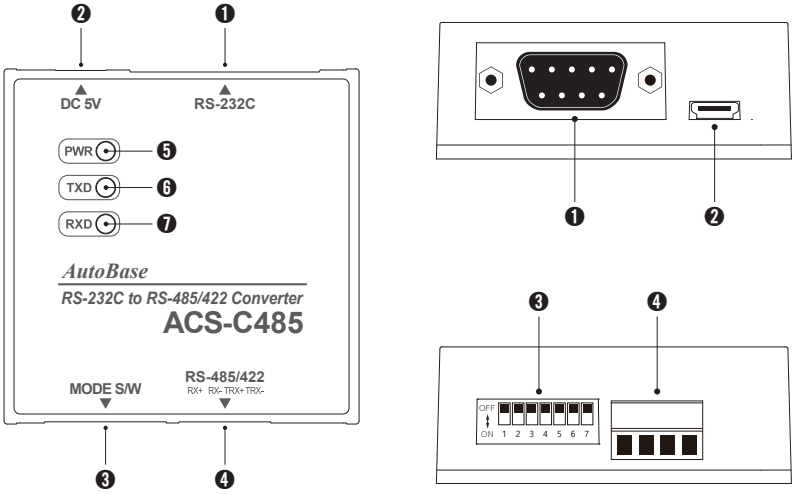


Connector type	Pin No.	Signal
	1	-
	2	TXD
	3	RXD
	4	DTR
	5	GND
	6	-
	7	CTS
	8	-
	9	-

3 RS-422/485 I/O Connector

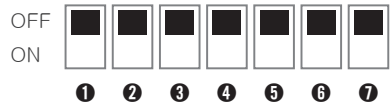
Connector type	Pin No.	Signal	
		RS-422	RS-485
	1	RX+	-
	2	RX-	-
	3	TX+	TRX+
	4	TX-	TRX-

4 Appearance and Partial name



Item	Specification
❶ RS-232C Port	PC or PLC connection port (Female Type D-SUB 9PIN)
❷ Power input DC	DC5V power supply (Micro-USB B Type 5PIN)
❸ Mode switch	Use when user select RS-422/485 mode,
	terminating resistance and pull-up/pull-down
❹ RS-422/485 Port	RS-422/485 device connection port
❺ PWR LED	Indicate power state
❻ TXD LED	Indicate signal from PC
❼ RXD LED	Indicate signal from converter

5 Mode switch



(1) RS-485 Mode Setting

S/W 1	S/W 2	S/W 3	S/W 4	S/W 5	S/W 6	S/W 7
OFF	ON	ON	ON	ON	ON	ON

(2) RS-485 Termination Setting

S/W 1	S/W 2	S/W 3	S/W 4	S/W 5	S/W 6	S/W 7
OFF	OFF	OFF	OFF	ON	OFF	OFF

(3) RS-485 PD/PU Setting

S/W 1	S/W 2	S/W 3	S/W 4	S/W 5	S/W 6	S/W 7
OFF	OFF	OFF	OFF	OFF	ON	ON

(4) RS-422 Mode Setting

S/W 1	S/W 2	S/W 3	S/W 4	S/W 5	S/W 6	S/W 7
ON	OFF	OFF	OFF	OFF	OFF	OFF

(5) RS-422 Termination Setting

S/W 1	S/W 2	S/W 3	S/W 4	S/W 5	S/W 6	S/W 7
OFF	ON	OFF	OFF	ON	OFF	OFF

(6) RS-422 PD/PU Setting

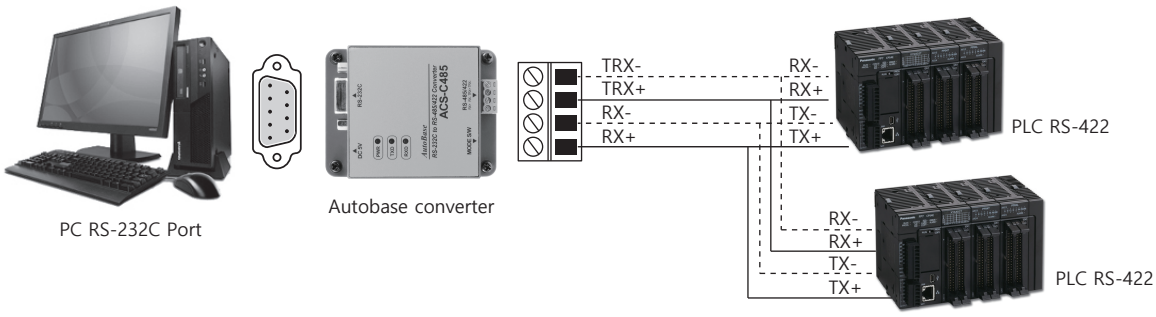
S/W 1	S/W 2	S/W 3	S/W 4	S/W 5	S/W 6	S/W 7
OFF	OFF	ON	ON	OFF	ON	ON

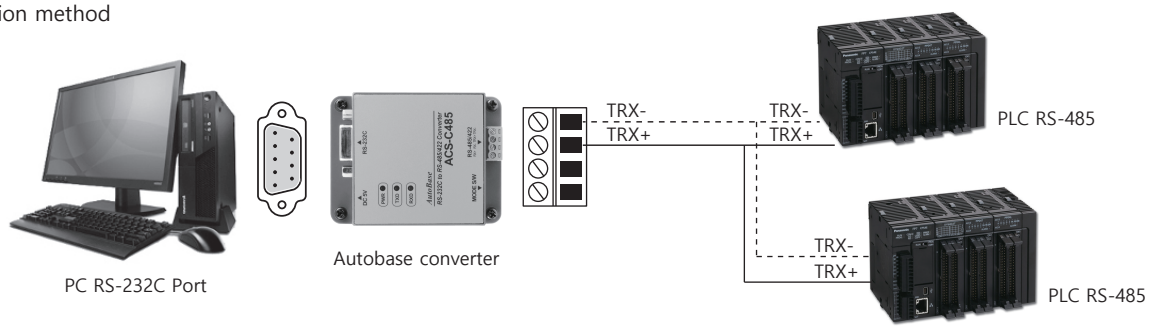
6 Power supply and Connection method

This product use TXD, RTS, DTR signal from RS-232C port including PC, PLC etc. as power without separate external power.
Users can check power ON or OFF through front PWR LED light. Please supply the power through Micro USB B Type 5 Pin if device does not power.
Occasionally, It affects the communication environment because power is too low.

(1) RS-422 Connection method - Use 1:1 (Point to Point) or 1:N (Multi-Drop) Full-duplex

* 1:N Connection method



(2) RS-485 Connection method - Use 1:1 (Point to Point) or N:N (Multi-Drop) Half-duplex

* N:N Connection method