

Document Name: User Manual for SMARTCONVERTER –SC04U SMD Auto Baud

SMARTCONVERTER –SC04-U converts RS232 signal to RS422 / RS485 Isolated differential level signal.

It works on Universal AC DC Power Supply on the same terminals supporting 90 to 270V AC & 220V DC +/- 20%. 24V DC, range 18 to 72V DC Power supply options are available.

- ✓ Ensure proper Power supply connections. Recheck the connections before Power On.
- ✓ Ensure proper Data cable connections as per the table below.
- ✓ Ensure proper DIP settings as per the DIP Switch Setting table.
- ✓ Use 120Ω termination resistances wherever necessary

RS232 DETAILS

Direction of RS232 Signal

PIN NO	DIRECTION
2	Outgoing from SC04U
3	Incoming for SC04U
4 & 6	Shorted
7,8	Shorted
5	Gnd

Cable connection RS232

PC Side 9 Pin D Type F	Signal	SC04-U Side 9 Pin D Type M
1	DCD	1
2	RxD	2
3	TxD	3
4	DTR	4
5	GND	5
6	DSR	6
7	RTS	7
8	CTS	8
9	RI	9

RS485 / RS422 SIDE DETAILS

For RS485, 4 wire

SIGNAL of SC04U	DIRECTION	Will Connect to
TX +	OUTPUT FROM SC04 U	RX+ of your device
TX --	OUTPUT FROM SC04 U	RX- of your device
RX +	INPUT TO SC04 U	TX + of your device
RX --	INPUT TO SC04 U	TX – of your device

For RS485, 2 wire

SIGNAL of SC04U	DIRECTION	Will Connect to
TX +	Bi-directional Signal	TX + / D+ of your device.
TX --	Bi-directional Signal	TX -- / D- of your device.

DIP SWITCH SETTING DETAILS:

SW1	
ON	RS485
OFF	RS422

SW2	
ON	NA
OFF	-----

SW3	
ON	Auto Baud enable
OFF	

SW4	SW5	
ON	OFF	2 Wire
OFF	ON	4 Wire

SW6	SW7	SW8	
ON	OFF	OFF	19.2 to 115 Kbps
OFF	ON	OFF	4.8 to 9.6 Kbps
OFF	OFF	ON	4.8 & below Kbps

DATA FLOW: At Power ON, both TX & RX LED's are OFF. When data is received from RS 232 side, transmission is enabled and TX LED will blink. When data is received from RS 422 side RX LED will blink.