

Document Name: SMARTCONVERTER –SC04U SMD MANUAL

SMARTCONVERTER –SC04-U converts RS 232 signal to RS 422 / RS 485 Isolated differential level signal. It works on 230V / 110V AC. 24V & 48V 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 120 Ω termination resistances wherever necessary.

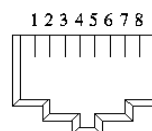
RS232 DETAILS

Direction of RS232 Signal

PIN NO	DIRECTION
6	Outgoing from SC04U
3	Incoming for SC04U
1 & 8	Shorted
5	Gnd

Cable connection RS 232

PC Side 9 Pin D Type F	Signal	SC04-U Side RJ45 F
1	DCD	7
2	RxD	6
3	TxD	3
4	DTR	2
5	GND	4 & 5
7	RTS	1
8	CTS	8



RJ45 Connector Pinout

RS 485 / RS 422 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 RS 485, 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	RS485 Auto baud Rate 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.