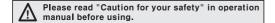
Serial Converter Module(RS232C ←→ RS485 convertable)

■Features

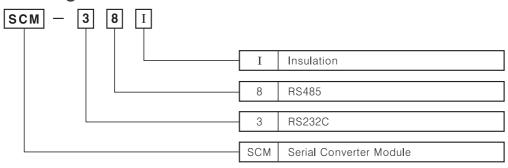
- •Includes the circuit of surge protection.
- ●The insulation type of signal line(Insulating 232C and 485)
- •Create Tx-Enable signal automatically







Ordering information



■Specifications

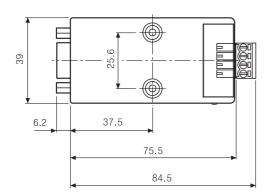
Model			SCM-38I	
Power supply			12-24VDC	
Allowable voltage range			90 ~ 110% of rated voltage	
Power consumption			Approx. 1.7W	
Maximum communication speed			1200 ~ 115200bps(1200/2400/4800/9600/12800/25600/56700/115200)	
Communication type			Half Duplex type	
Available communication distance			Max. 800m	
Multi-Drop			Max. 32 Multi-Drop	
(51		Data Bit	5 ~ 8 Data Bits	
(Note) Data type	•	Stop Bit	1 or 2 Stop Bits	
Data tys	50	Parity Bit	No/Odd/Even Parity Bit	
Connection type		RS232	D-Sub 9Pin	
		RS485	4-wire Screw terminal(2wire communication type)	
Insulation resistance		nce	Min. 100MΩ (at 500VDC)	
Dielectric strength		ı	2500Vrms	
Noise strength			±500V the square wave noise(pulse width:1µs) by the noise simulator	
Vibration	Ме	chanical	$0.75 mm$ amplitude at frequency of 10 \sim 55Hz in each of X, Y, Z directions for 1 hour	
vibration	Mal	function	0.5mm amplitude at frequency of 10 \sim 55Hz in each of X, Y, Z directions for 10 minutes	
Shock	Ме	chanical	300m/s ² (Approx. 30G) 3 times at X, Y, Z direction	
Snock	Malfunction		100m/s ² (Approx. 10G) 3 times at X, Y, Z direction	
Ambient temperature			-10 ~ +55 ℃ (at non-freezing status)	
Storage temperature			-20 ~ +60℃ (at non-freezing status)□	
Ambient humidity			35 ~ 85%RH	
Approval			(E MIC	
Unit weight			Approx. 46g	

 $[\]frak{**}$ (Note) Data type is set by program.

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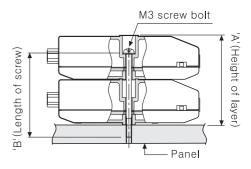
Converter Module

Dimensions



(Unit:mm)

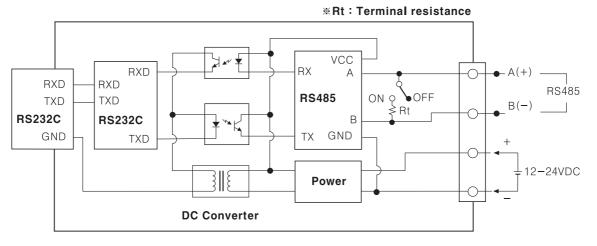
***Side view of the multilayer**



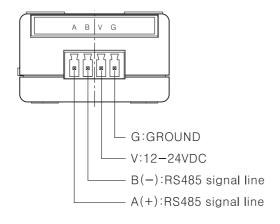
Number of layers(N)	"A" Size (23.3N+1.2)	B" Size (23.3N-3.3)
1	24.5mm	20mm
2	47.5mm	43.3mm
3	71.1mm	66.6mm
4	94.4mm	89.9mm

23 8 22 8 22 8 22

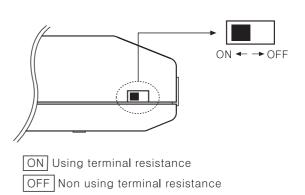




Connections



■ Selection of terminal resistance



(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(L) Pressure sensor

(M) Rotary encoder

(N) Stepping motor & Driver & Controller

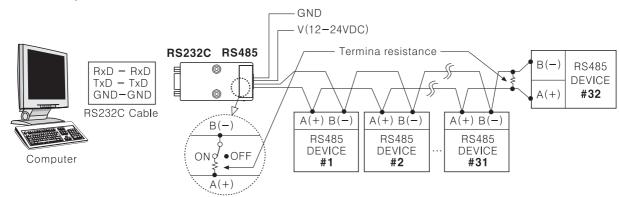
(O) Graphic panel

(P) Production stoppage models & replacement

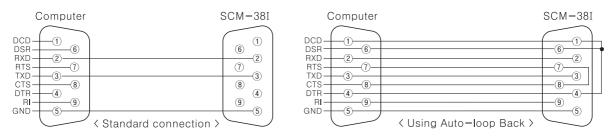
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System organization

Multi-Drop connection method with PC



©RS232C cable connection



*When the software of the communication driver uses Auto-loop Back, please connect as the above.

■Proper usage

- Tx_Enable signal(RTS signal):
 Tx_Enable signal(RTS signal) is automatically generated according to protocol.
- •Auto-loop Back: When Auto-loop Back is required, please use as 'RS232C cable connections'.
- •Setting of protocol rule (Start bit, Stop bit, Parity bit, Data bit, Baud rate) can be set by software without external input or internal setting.
- ●Using the Twist pair cable (24-AWG), which is suitable to RS485 communication is recommended. If the twist pair cable is not used, be sure preserving the length of A(+) and B(-) cables.
- The extension of communication cable is maximum 1.2km, and the number of available connecting communication product is 32 items.
- •After connecting the communication cable between SCM-38I and lower system, be sure to attach the terminal resistance (100~120 Ω).
 - (The terminal resistance of SCM-38I is set by external switch)
- •For the connection be sure that protocol is consisted with each communication product when programming the software program by connecting to other communication products.

•Terminal resistance: RS485 communication have a rapid transmission speed and long communication distance, if the communication line and impedance between Driver, Receiver of RS485 are not matched, it causes a reflective wave.

It can make an error for using, please use the terminal resistance at the tip of the network.

(Terminal resistance : $100 \sim 200 \Omega$)

- •To avoid inductive noise, separate the wires from high voltage cable and power cable.
- •Do not this unit as following place
 - A place where vibration, shock is occurred.
 - A place where strong alkali or acid material is used.
 - A place where the direct ray of light is occurred.
 - A place where strong magnetic force or electric noise is occurred.
- Storage

To preserve for long term, please avoid direct ray of light and keep it under the temperature from $-20\,^{\circ}$ $\sim 60\,^{\circ}$ and the relative humidity less than $35\sim 85\%$ RH. Wrap same as shipping for optimum storage.

- •Installation environment
- It shall be used indoor
- Altitude Max. 2000m
- Pollution Degree 2
- Installation Category I

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