

TECO Modbus Installation Guide

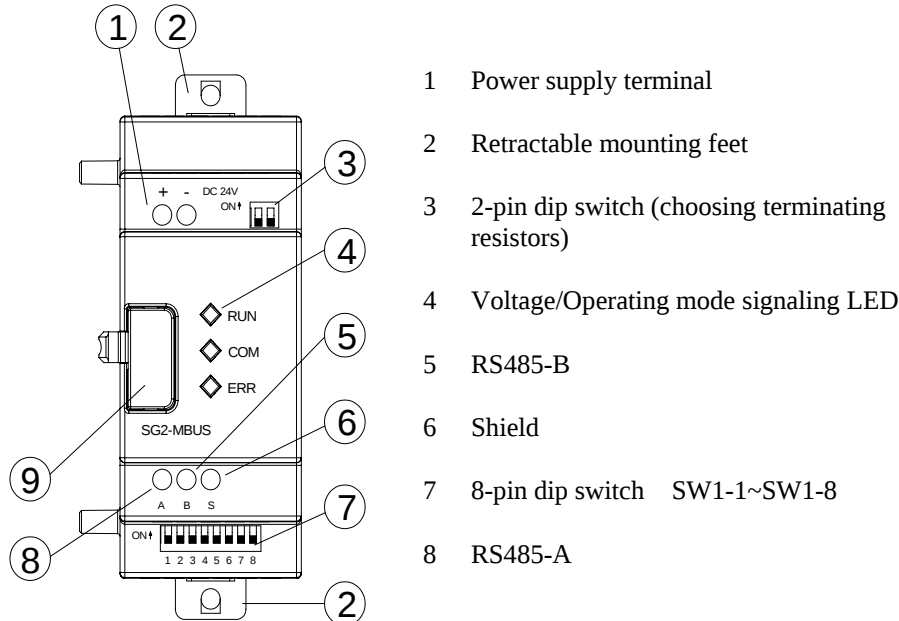
Product: SG2-MBUS

Warning!

Unintentional equipment operation.

The application of this product requires know-how in design and program of control system. Only persons qualified are allowed to program, install and apply this product.

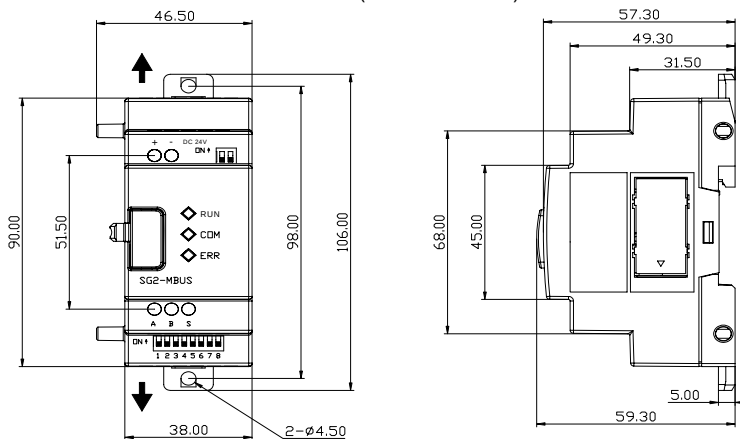
Failure to follow this instruction will result in death, serious injury or equipment damage.



8-pin Dip Switch Function

SW1-1~SW1-3	Set-up baud rate
SW1-4	Set-up stop bits and parity check bits
SW1-5	Set-up the check style (only SW1-4=1)
SW1-6	Assembles setting
SW1-7	Reserve
SW1-8	Reserve

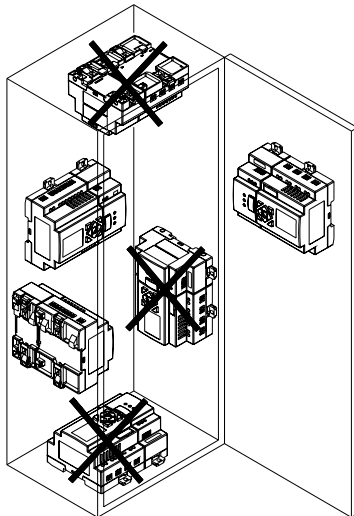
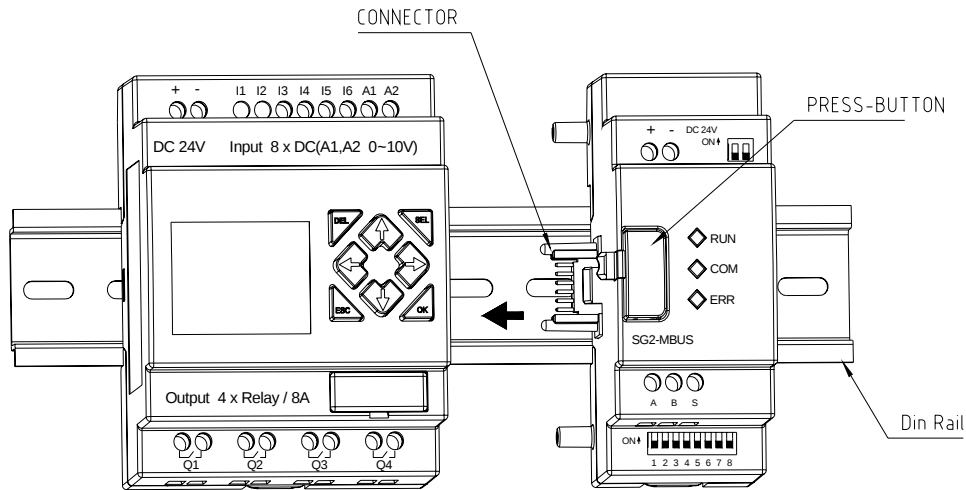
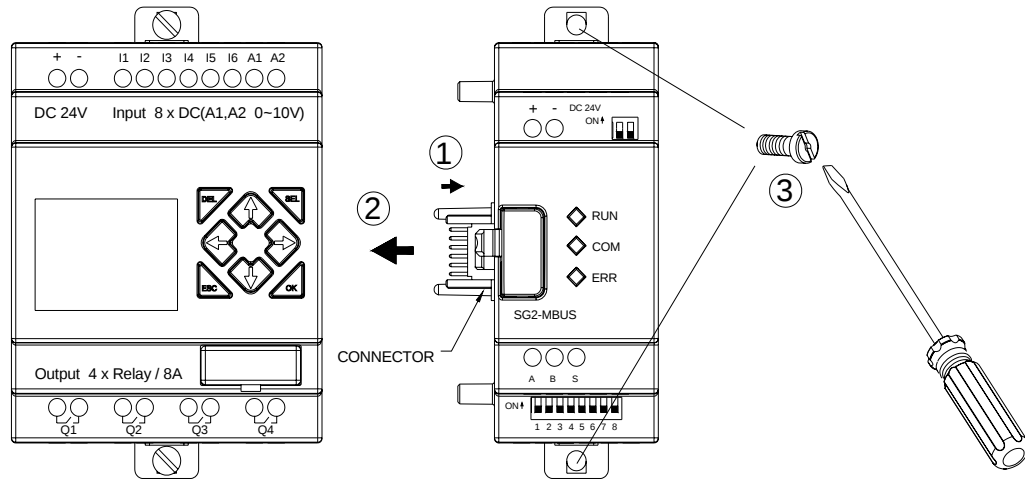
Unit : mm (1 inch=25.4mm)



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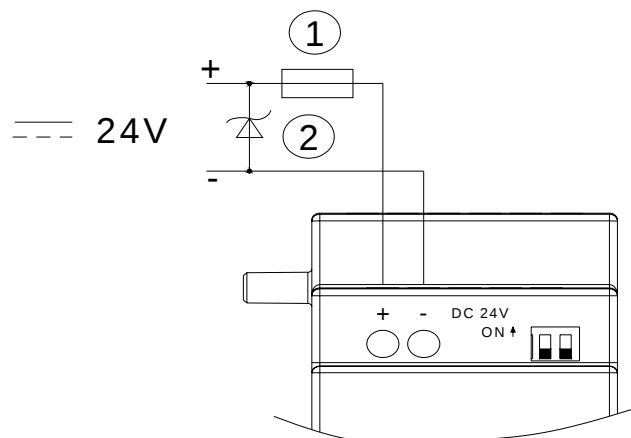
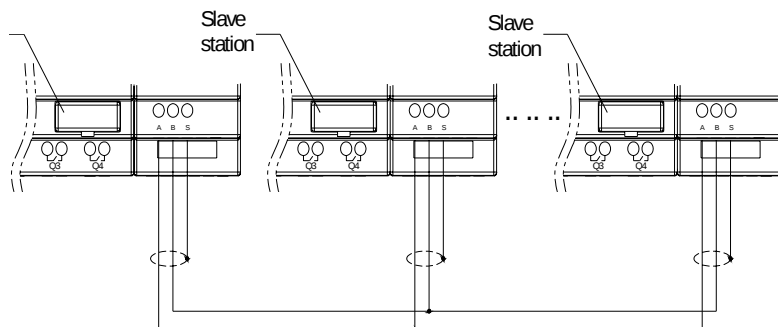
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mm ²	0.14...1.5	0.14...0.75	0.14...2.5	0.14...2.5	0.14...1.5
AWG	26...16	26...18	26...14	26...14	26...16
 Ø 3.5 (0.14in)					
	C		Nm	0.6	
			lb-in	5.4	

Danger!**HAZARDOUS VOLTAGE**

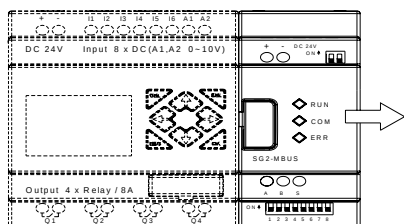
Cut off all power before maintenance.

Electric shock will result in death or serious injury.**Input 24V DC.****Communication - product SG2-MBUS:**

1-1A quick-blowing fuse, circuit-breaker or circuit protector.

2-Surge absorber.

Following is what the LED working in different state means:



LED	Status	State Display
RUN	Green ON	Connected with SG2 basic unit OK.
	Green flash (2Hz)	Don't be connected with SG2 basic unit.
ERR	Red ON	Connected with SG2 but SG2 setting IO number error.
	Red flash (5Hz)	Communication with SG2 error (such as CRC error or parity check error).
	Red flash (2Hz)	Communication with Modbus error (Such as CRC error, parity error or command error).
	Red OFF	Communication OK.
COM	Yellow ON	Module receiving or sending data.
	Yellow OFF	No message communicating.

8-pin Dip Switch Function

SW1-1~SW1-3	Set-up baud rate
SW1-4	Set-up stop bits and parity check bits
SW1-5	Set-up the check style (only SW1-4=1)
SW1-6	Assembles setting
SW1-7	Reserve
SW1-8	Reserve

SW1-3~SW1-1 set communication baud rate: 57.6K, 38.4k, 9.6K, 4.8K
The concrete parameters are as follow:

SW1-6	SW1-3	SW1-2	SW1-1	Baud Rate (Kbps)
OFF	OFF	OFF	OFF	4.8
OFF	OFF	OFF	ON	9.6
OFF	OFF	ON	OFF	19.2
OFF	OFF	ON	ON	38.4
OFF	ON	*	*	57.6
ON	*	*	*	38.4

Setting parity checks bits and stop bits:
SW1-4 sets stop bits and parity check bits.
SW1-5 sets the check style (only SW1-4=1).
SW1-6 assembles setting.
The concrete parameters are as follow:

SW1-8	SW1-7	SW1-6	SW1-5	SW1-4	Setting stop bit and parity bit
*	*	OFF	*	OFF	2 stop bits, no parity bit
*	*	OFF	OFF	ON	1 stop bit, 1 odd parity bit
*	*	OFF	ON	ON	1 stop bit, 1 even parity bit
*	*	ON	*	*	SW1-1~SW1-5 setting is invalid, communication assembled setting baud rate 38400bps, 2 stop bits, no parity bit.

*Can be off or on.