



### Expansion Module

#### Description

I/O can be expanded up to 31 expansion modules per controller.

Item	Description	
1	24V DC power supply	
2	Expansion port - IO to PLC	
3	DIP switch - slave ID (1 to 31)	
4	LED - Power	
No. of Analog Inputs (TC/RTD)	2	
Analog input type	Thermocouple/RTD	
Sensor	J, K, T, R, S, C, V, D, N, L, U, W, PLTNL ,RTD, MVOLT	
Resolution	14 BIT	
Linearity Error	0.1%	
Conversion time	100 ms	
Required power	35mA @ 24V DC	
	IO 610	IO 630
Response time	35ms	200usec
Expansion port conn.	RS485 + -	I/O EXP + -
Protocol	MODBUS RTU	Proprietary
Baudrate	19k2	500kbps
Mounting	DIN rail mounting	
Temperature	Operating: 0 To 50°C Storage: 20 To 50°C	
Humidity	95%	
Weight	120 gms	
Dimensions	52.5 mm x 90 mm x 73 mm	

### HARDWARE CONFIGURATION OF EXPANSION MODULES

Before configuration of the expansion module, slave ID address on the 5 way DIP switch as follows



Note: Do not assign same slave ID to two or more different expansion modules connected to the PLC

### SOFTWARE CONFIGURATION OF EXPANSION MODULES

IO 610 series :-

- 610 series IO modules can be interfaced with any master that supports Modbus protocol.
- Please see IO 610 series application note.

IO 630 series :-

- 630 series IO modules can be operated on proprietary protocol. These can be interfaced with Selec PLC series.
- Please see IO 630 series application note.

### ⚠ CAUTION

The equipment in its installed state must not come in close proximity to any heating sources, caustic vapors, oils, steam, or other unwanted process byproducts.

### EMC Guidelines:

1. Use proper input power cables with shortest connections and twisted type.
2. Layout of connecting cables shall be away from any internal EMI source.



