

# MAPLE MODULAR PLC SERIES - ANALOG MODULES



IO-SA0400Y



IO-SA0004C



IO-SA0202Y



IO-SA0800Y



IO-SA0004V

## MODULE LIST

Category	Part Number	I/O Points	Detail
Analog Input Module	IO-SA0400Y	4 Current/Voltage Inputs	0 – 20 mA -10 – +10 V Screw-based Connector
	IO-SA0800Y	8 Current/Voltage Inputs	0 – 20 mA -10 – +10 V Push-in Terminal Connector
Analog Output Module	IO-SA0004C	4 Current Outputs	4 – 20 mA Screw-based Connector
	IO-SA0004V	4 Voltage Outputs	-10 – 10 V Screw-based Connector
Analog Input/ Analog Output Module	IO-SA0202Y	2 Current/Voltage Inputs 2 Current/Voltage Outputs	Input: 0 – 20 mA -10 – +10 V Output: 0 – 20 mA -10 – +10 V Screw-based Connector

## FUNCTIONAL

### Analog Output Specifications

Part Number	IO-SA0202Y	IO-SA0004V	IO-SA0004C
Analog Output Points	2 Points	4 Points	
Analog Output	Voltage: 0 – 5 V, 1 – 5V, 0 – 10 V, -10 – 10 V  Current: 0 – 20 mA, 4 – 20 mA	0 – 10 V, -10 – 10 V  (Dip Switch)	4 – 20 mA
Minimum Load Impedance	1 kOhm	3 kOhm	-
Resolution	14-bit, 0 – 16000 16-bit, 0 – 64000	14-bit, 0 – 16000	
Accuracy	±0.05% (Full Scale)	±0.01% (Full Scale)	
Conversion Speed	<2 ms		
Insulation Method	Photocoupler		
Power Supply	External 24 VDC		
Current Consumption (mA)	Internal	@3.3 VDC, 45 mA	@3.3 VDC, 40 mA
	External	@24 VDC, 75 mA	@24 VDC, 50 mA

## FEATURES

- Group-isolated.
- Combination analog input and analog output module.
- Up to 8 analog inputs on a single module.
- Screw-based connectors.

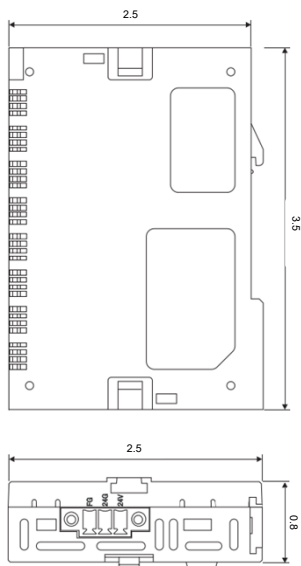
## BENEFITS

- Diagnostic LEDs.
- Swap between current and voltage input/output from scan logic.

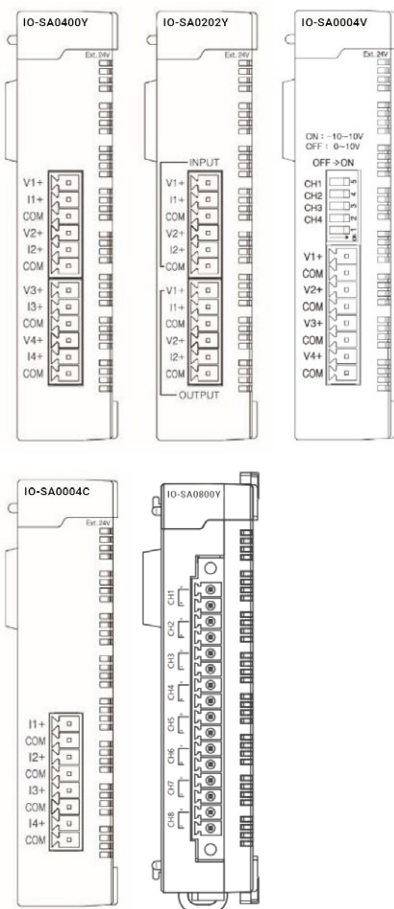


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\*All analog modules are the same size.



(Unit: in)



Analog Input Specifications			
Part Number	IO-SA0202Y	IO-SA0400Y	IO-SA0800Y
Analog Input Points	2 Points	4 Points	8 Points
Analog Input	Voltage: 0 – 5 V, 1 – 5V, 0 – 10 V, -10 – 10 V Current: 0 – 20 mA, 4 – 20 mA		
Resolution	14-bit, 0 – 16000 16-bit, 0 – 64000		
Accuracy	±0.03% (Full Scale)		
Conversion Speed	<0.5 ms		
Insulation Method	Photocoupler		
Power Supply	External 24 VDC		
Current Consumption (mA)	Internal	@3.3 VDC, 45 mA	@3.3 VDC, 30 mA
	External	@24 VDC, 75 mA	@24 VDC, 35 mA

## PHYSICAL

Part Number	IO-SA0400Y	IO-SA0800Y	IO-SA0004C	IO-SA0004V	IO-SA0202Y
Dimension (W X D X H)	3.5 x 0.8 x 2.5 in (90 x 20 x 63 mm)				
Product Weight	0.19 lb (87 g)	0.20 lb (89 g)	0.19 lb (87 g)	0.19 lb (86 g)	0.20 lb (89 g)

## ENVIRONMENTAL

Item	Specification	Standards
Operating Temperature	-10 – +60 °C (+14 – +140 °F)	-
Storage Temperature	-25 – +80 °C (-13 – +176 °F)	-
Operating/Storage Relative Humidity	5 – 95% Non-condensing	-
Shock	15G	IEC 60068-2-64
Vibration	0.5G - Continuous 1G - Discontinuous	IEC60068-2-64 IEC60068-2-6
Square Wave Impulse Noise	±2 kV	-
ESD Immunity	±4 kV - Contact Discharges ±8 kV - Air Discharges	IEC 61131-2 IEC 61000-4-2
Radiated Electromagnetic Immunity	80–1000 MHz, 10 V/m	IEC 61131-2 IEC 61000-4-3
Surge Transient Immunity	2 kV - CPU, Power 2 kV - Discrete I/O (VAC) 1 kV - Discrete I/O (VDC) 1 kV - Communication	IEC 61131-2 IEC 61000-4-4