

SAP E&C SAP ROBOT MODEL
(PRODUCT CODE: SAP – 48A)



The **SAP ROBOT MODEL(SAP – 48A)** gives provision to interface PLC with 4-Axis robotic arm to Pick and Place an object from one Position to another with help of PLC program and HMI.

Technical Specification:-

No.	Item Name	Technical Specifications
01	Programmable Logic Controller (PLC)-	Mitsubishi FXFU-32MR/ Delta/Equivalent Digital inputs- 16, Digital outputs- 16, Analog Input- 02, Analog outputs-02 PC interface facility, PC-PLC interfacing cable. Ladder Programming Software.
02	Human Machine Interface (HMI)-	Make: Mitsubishi/Schneider/ Delta/Equivalent Size: 7" Color Touch Screen
03	Servo Control Module-	1 No.
04	AC Servo Motor-	4 Nos. 1.3 Nm, 400 W, 3000 RPM, Without Break, Plain Shaft
05	Servo Amplifier-	Make: Mitsubishi/ Delta/Equivalent. Supply Voltage: 1 ϕ 230VAC,
06	Servo Interfacing Board with cable-	50 Pins connecting channel for Interfacing between PLC and Servo Amplifier
07	Encoder cable-	5 m in length
08	6 V, 1 A Battery	
09	CCN1 Connector	
10	SSCNETIII Cable – 1 m length	
11	Installation	Floor type
12	Structure	Horizontal, Multiple-joint type.
13	Degree Of Freedom	4
14	Drive System (*1)	AC Servo Motor
15	Position Detection Method	Absolute Encoder

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16	Maximum Load Capacity (Rating) kg	3	
17	Arm Length (No1 arm)	125 mm	
18	Maximum Reach Radius	350 mm	
19	Operating Range (degree)	J1	340 (+/- 170)
		J2	290 (+/- 145)
		J3	150
		J4	720 (+/-360)
20	Maximum Speed (degree/sec)	J1	360
		J2	720
		J3	720
		J4	1500
21	Position Repeatability (mm)	+/- 0.010	
22	Ambient Temperature (°C)	0 to 40	
23	Mechanical Gripper	1 net	

Features-

- ❖ Controlled by PLC
- ❖ Displacement in all 3 planes and 4-axis.
- ❖ Capable to pick and place an object from one position to another.
- ❖ Variable Jaw area to Pick objects of different shapes.
- ❖ Object Lift movement height Selectable

Dimensions-

- ❖ Control Panel: 1.5 Ft (L) × 1 Ft (W) × 1.5 Ft (H)
- ❖ Pick & Place Platform: 1.5 Ft (L) × 1.5 Ft (W) × 2 Ft (H)

Services Required-

- ❖ 230V AC,1φ Supply.

Note-

All descriptive matter and illustrations are intended to give only a general idea of the equipment Detailed specifications may be altered at the company's discretion without any notice.

Manufactured/Marketed By

SAP ENGINEERS & CONSULTANTS

Regd. Off. : Shop No. 26-27,'Srushti', Survey No.82, Near Guru Ganesh Nagar,
Eklavya College Road (D.P.Road), Kothrud, Pune - 411 038, India

Telephone : (020) 2538 4737

Mobile : +91 94220 88946, +91 9552475082

Fax : (020) 2538 3544

Email : sales@sapengineers.com

Website : www.sapengineers.com / www.sapengineers.co.in

