

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6SL3055-0AA00-4CA4

ADVANCED OPERATOR PANEL

Used with the applicable SINAMICS AOP30 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens SINAMICS AOP30 manufacturer documentation; applicable pages 168, 169

SINAMICS S120 Chassis Format Units

System components

Supplementary system components AOP30 Advanced Operator Panel

Overview



The AOP30 Advanced Operator Panel is an input/output device for the SINAMICS series, preferably for cabinet mounting.

It has the following features and characteristics:

- Graphical backlit LCD display for plain text display and a bar display of process variables
- LEDs for display of operating modes
- Help function describing causes of and remedies for faults and alarms
- Keypad for operational control of a drive
- Local/remote switchover for selecting the operating location (priority assigned to operator panel or customer terminal block/PROFIBUS/PROFINET)
- Numeric keypad for input of setpoint or parameter values
- Function keys for prompted navigation in the menu
- Two-stage safety concept to protect against accidental or unauthorized changes to settings.
 - Operation of the drive from the operator panel can be disabled by the keyboard lock so that only parameter values and process variables can be displayed on the operating panel.
 - A password can be used to prevent the unauthorized modification of converter parameters.
- Front panel with degree of protection IP55

If just one CU320-2 Control Unit controls several power units (multi-motor operation), then the parameters, alarms and faults relating to all the devices connected can be simultaneously displayed and processed. The AOP30 communicates with the SINAMICS drive via the serial RS232 interface and PPI protocol.

The AOP30 may be omitted if the drive is only operated via PROFIBUS, for example, and no local display is required on the cabinet. The AOP30 can then be used simply for commissioning purposes and to obtain diagnostic information, in which case, it is plugged into the RS232 interface on the CU320-2 Control Unit. In this case, an external 24 V power supply (max. current requirement 200 mA) is required.

AOP30 X540

9-pole SUB-D
RxD 2
TxD 3
M 0V 5

CU320-2 X140

9-pole SUB-D
RxD 2
TxD 3
M 0V 5

Assignment of the serial plug-in cable

Design

The AOP30 is an operator panel with graphical display and membrane keyboard. The device can be installed in a cabinet door (thickness: between 2 mm and 4 mm).

Features:

- Display with green backlighting, resolution 240 × 64 pixels
- 26-key membrane keyboard
- Connection for a 24 V power supply
- RS232 interface
- Time and date memory with internal battery backup
- 4 LEDs to signal the operating state of the drive:
 - RUN: green
 - ALARM: yellow
 - FAULT: red
 - Local/Remote: green

Function

The current operating states, setpoints and actual values, parameters, indices, faults and alarms are displayed on the display panel.

Chinese, German, English, French, Italian and Spanish are stored on the CU320-2 Control Unit CompactFlash card as operator panel languages. The desired language must be downloaded to the AOP30 prior to commissioning.

On request, Russian, Polish, and Czech are available in addition to these languages installed as standard. These can be downloaded free of charge from the Internet under the following link: <http://support.automation.siemens.com/>

Selection and ordering data

For the SINAMICS S120 Cabinet Modules system, the AOP30 can be ordered as an option by specifying order code **K08**. No further connections need to be made and no other materials are required.

For the SINAMICS S150 system, the AOP30 is installed in the cabinet door as standard.

Description	Order No.
AOP30 Advanced Operator Panel	6SL3055-0AA00-4CA4
Accessories	
RS232 plug-in cable for connecting the AOP30 to the CU320-2	
1 m long	6FX8002-1AA01-1AB0
2 m long	6FX8002-1AA01-1AC0
3 m long	6FX8002-1AA01-1AD0
4 m long	6FX8002-1AA01-1AE0
5 m long	6FX8002-1AA01-1AF0
6 m long	6FX8002-1AA01-1AG0
7 m long	6FX8002-1AA01-1AH0
8 m long	6FX8002-1AA01-1AJ0
9 m long	6FX8002-1AA01-1AK0
10 m long	6FX8002-1AA01-1BA0

Technical data

AOP30 Advanced Operator Panel 6SL3055-0AA00-4CA4	
Power supply	24 V DC (20.4 ... 28.8 V)
Current demand	
• Without backlighting	< 100 mA
• For max. backlighting	< 200 mA
Data interface	RS232 interface, PPI protocol
Backup battery	3 V lithium CR2032
Operating temperature	0 ... 55 °C
Storage and transport temperature	-25 ... +70 °C
Degree of protection	IP20 from the inside of the cabinet IP55 from the outside of the cabinet
Dimensions	
• Width	212 mm
• Height	156 mm
• Depth	31 mm
Weight, approx.	0.55 kg
Conformity	CE
Approvals, according to	cULus