Overview

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

It has the following characteristics:

- Graphical backlit LCD display for plain text display and a bar display of process variables
- LEDs for display of the operating states
- Help function describing causes of and remedies for faults and alarms
- Keypad for controlling drives during operation
- Local/remote switchover for selecting the operating location (control priority assigned to operator panel or customer terminal block / communication channel)
- Numeric keypad for input of setpoint or parameter values
- Function keys for guided navigation in the menu
- Two-stage safety strategy 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 operator panel.
  - A password can be used to prevent the unauthorized modification of converter parameters.
- Front panel with degree of protection IP55

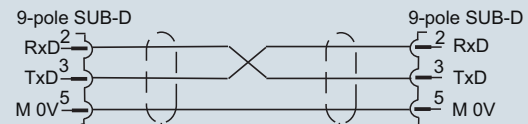The AOP30 and SINAMICS drive communicate via the RS232 serial interface with PPI protocol.

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.

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 which is between 2 mm and 4 mm thick.

Features:

- Display with green backlighting, resolution 240 × 64 pixels
- Membrane keyboard with 26 keys
- Connection for a 24 V power supply
- RS232 interface
- Time and date memory with internal battery backup
- 4 LEDs to indicate 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.

German, English, French, Italian, Spanish and **Chinese** 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. In addition to these preinstalled languages, **Russian** and **Portuguese** (Brazil) are also available for subsequent installation. Further languages are available on request.

SINAMICS G130
Drive converter chassis units

Selection and ordering data

Description	Article No.
AOP30 Advanced Operator Panel	**6SL3055-0AA00-4CA5**
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**

For the SINAMICS G150 and SINAMICS S150, the AOP30 Advanced Operator Panel is installed in the cabinet door as standard.

For the SINAMICS S120 Cabinet Modules, the AOP30 can be ordered as an option by specifying order code **K08**.

Technical specifications

AOP30 Advanced Operator Panel	6SL3055-0AA00-4CA5
Power supply	24 V DC (20.4 ... 28.8 V)
Current requirement • Without backlighting • For max. backlighting	 < 100 mA < 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 for the inside of the cabinet IP55 for the outside of the cabinet
Dimensions • Width • Height • Depth	 212 mm 156 mm 31 mm
Weight, approx.	0.55 kg