© Siemens AG 2011

Overview



The user-friendly AOP30 operator panel is an optional input/output device for SINAMICS G130 converters. For SINAMICS G150 drive converter cabinet units, it is fitted in the cabinet door as standard. It can be ordered separately for a SINAMICS G130 converter.

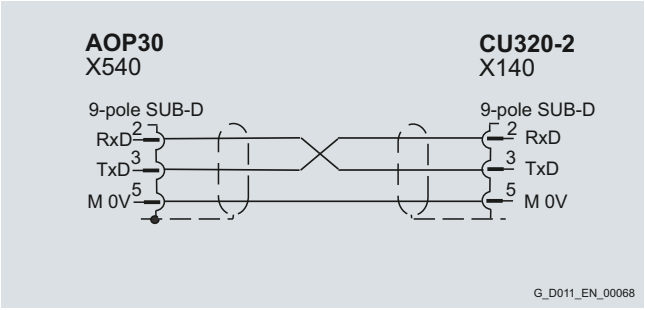
It has the following features and characteristics:

- Graphical LCD display with backlighting 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 input point (priority assigned to operator panel or customer Terminal Module/ communications channel)
- Numeric keypad for input of setpoint or parameter values
- Function keys for prompted 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 operating panel.
  - A password can be used to prevent the unauthorized modification of converter parameters.
- Front panel with degree of protection IP55

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.

An external 24 V power supply (max. power consumption 200 mA) is needed to operate the AOP30. This can be tapped from the Power Module supply.



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 x 64 pixels
- 26-key membrane keyboard
- Connection for a 24 V power supply
- RS232 interface to the CU320-2
- 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.

English, German, French, Italian, Spanish and **Chinese** are stored on the CU320-2 Control Unit's CompactFlash card as operator panel languages. The desired language must be downloaded to the AOP30 prior to commissioning. **Russian, Polish** and **Czech** are available in addition to these standard panel languages. These can be downloaded free of charge from the Internet under the following link:
http://support.automation.siemens.com/

Selection and ordering data

Description	Order No.
AOP30 Advanced Operator Panel	**6SL3055-0AA00-4CA4**

Accessories

RS232 plug-in cable for connecting the AOP30 to the CU320-2	Length m	Order No.
	1	**6FX8002-1AA01-1AB0**
	2	**6FX8002-1AA01-1AC0**
	3	**6FX8002-1AA01-1AD0**
	4	**6FX8002-1AA01-1AE0**
	5	**6FX8002-1AA01-1AF0**
	6	**6FX8002-1AA01-1AG0**
	7	**6FX8002-1AA01-1AH0**
	8	**6FX8002-1AA01-1AJ0**
	9	**6FX8002-1AA01-1AK0**
	10	**6FX8002-1AA01-1BA0**

© Siemens AG 2011

Technical data

AOP30 Advanced Operator Panel	
Power supply	24 V DC (20.4 V ... 28.8 V)
Current requirement	
• Without backlighting	< 100 mA
• For max. backlighting	< 200 mA
Data interface	RS232/RS485 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	0.55 kg
Approvals, acc. to	cULus, CE