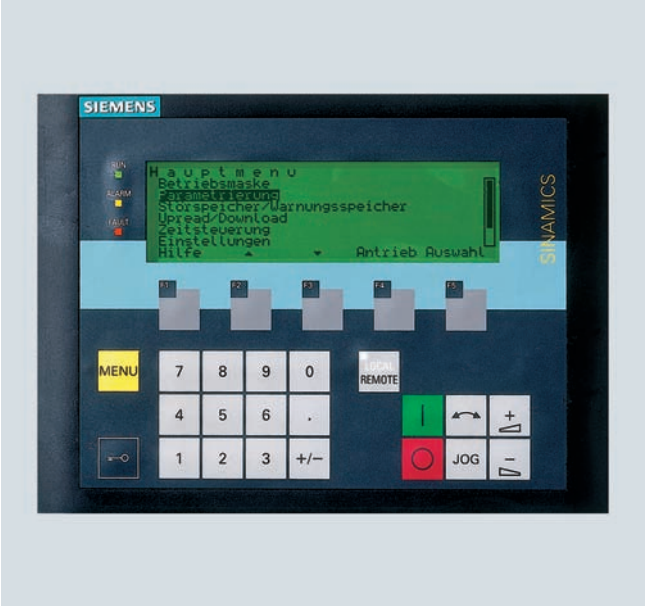
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Overview



The user-friendly AOP30 Advanced Operator Panel is an optional input/output device for SINAMICS G130 converters. On the SINAMICS G150 drive converter cabinet units, it is fitted in the cabinet doors as standard. It can be ordered separately for a SINAMICS G130 converter.

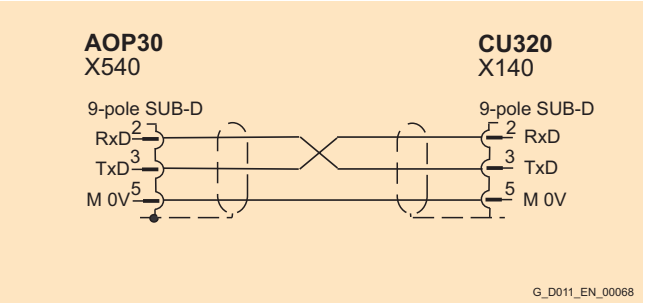
It has the following features and characteristics:

- Graphical LCD display with backlighting for plain text display and a bar display of process variables
- LEDs for display of the operational status
- 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's terminal block/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 a password, ensuring that only parameter values and process variables can be displayed in the 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 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 Control Unit.

An external 24 V power supply (max. power requirement 200 mA) is needed to run the AOP30. This can be tapped off from the Power Module's power supply.



Assignment of the serial plug-in cable

Design

The AOP30 is an operator panel with graphical display and membrane keypad. The device can be installed in a cabinet door with a 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
- Time and data are stored by an internal buffer battery
- 3 LEDs to signal the operating state of the drive:
  - RUN green
  - ALARM yellow
  - FAULT red

Function

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

English, French, German, Italian, Spanish and **Chinese** are stored on the CU320 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	**6SL3055-0AA00-4CA3**

Accessories

RS232 plug-in cable for connecting the AOP to the CU320	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**

Mechanical installation

3

The following diagrams and descriptions explain the conditions and procedures involved in the mechanical installation of the AOP30 operator panel.

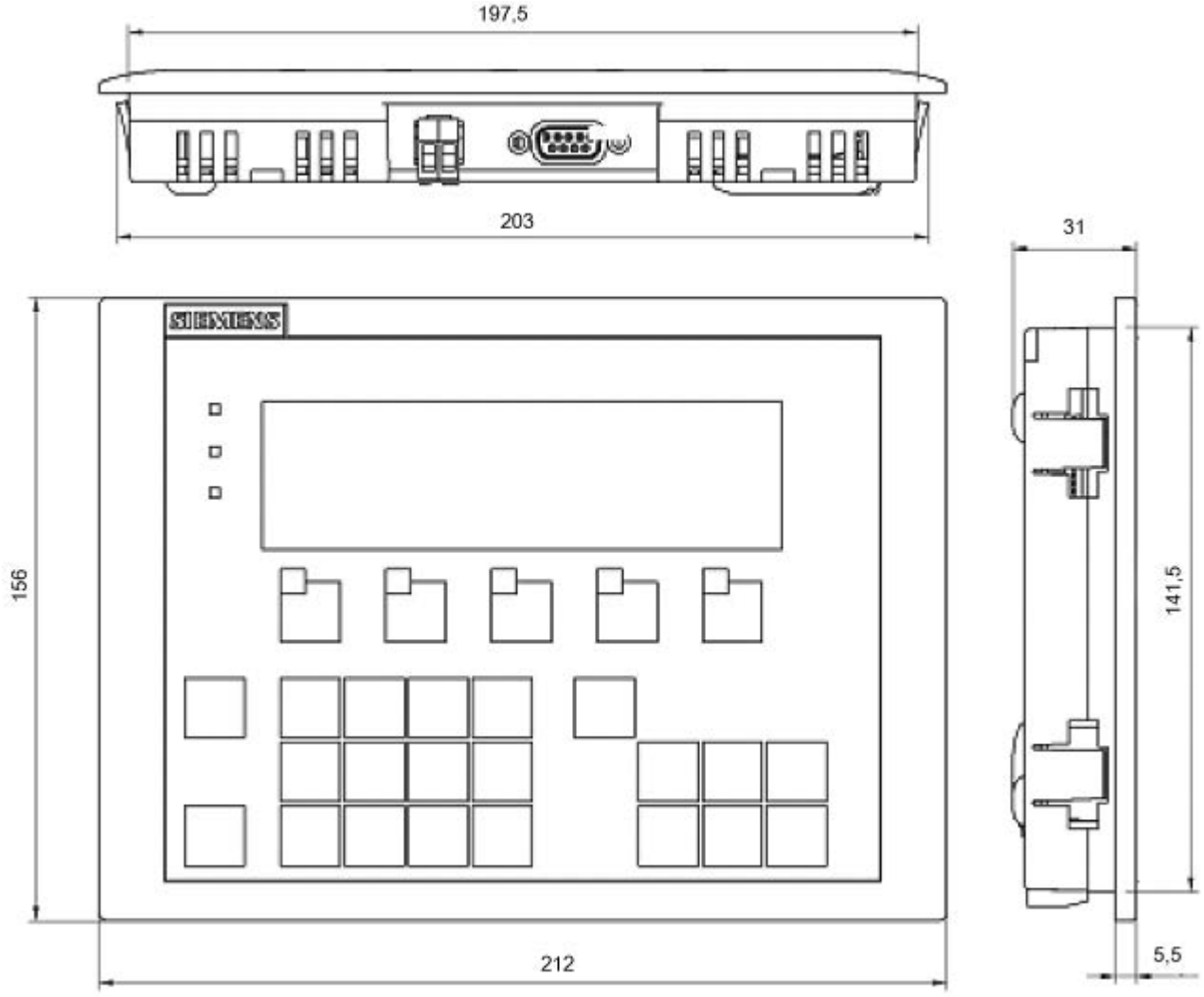


Figure 3-1 Dimension drawing of the AOP30 operator panel

Installing the operator panel (cabinet door thickness: 2 mm)

1. Cut out a 141.5 mm x 197.5 mm section in the cabinet door.
2. Fit the AOP30 operator panel in this cutout section from the outside.
3. Apply pressure to the four corners until the snap-in lugs lock into position.

Technical specifications

7

Table 7- 1 Technical specifications

Power supply	24 V DC (20.4 V to 28.8 V)
Current requirements - Without backlighting - With maximum backlighting	 <100 mA <200 mA
Data interface	RS232 interface, PPI protocol
Back-up battery	3 V lithium CR2032
Operating temperature	0 to 55°C
Storage and transport temperature	-25 to +70°C
Degree of protection	IP20 (inside cabinet) IP55 (outside cabinet)
Certification	cULus CE
Product standard	EN 61800-5-1
Dimensions	Information on this can be found in the "Mechanical installation" section
Weight	0.55 kg