

Siemens 6AV6643-0BA01-1AX0 Manual

Brand	Siemens
Product Series	Sheet15
Product Type	SIMATIC OP 277 6" Operator Panel

Description

6AV6643-0BA01-1AX0 | Siemens | SIMATIC OP 277 6" Operator Panel

Manufacturer: Siemens

Product Number: 6AV6643-0BA01-1AX0

Product Type: SIMATIC OP 277 6" Operator Panel

Design of display: TFT

Screen diagonal: 5.7 in

Color display: Yes

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Number of colors: 256

Resolution (horizontal x vertical): 320 x 240 pixels

Control elements: Membrane keyboard

Type of memory: Flash / RAM

Memory available for user data: 4 Mbyte

Capacity of main memory, max. : 64 Mbyte

Multimedia card/SD card slot: 1x Multimedia Card slot, up to 128 MB

Dimensions:

Housing front (WxH): 308 mm x 204 mm

Mounting cutout (WxH): 281 mm x 177 mm

Overall depth: 59 mm

Weight: 1.19 kg

6AV6643-0BA01-1AX0

AS OF 2015-01-01 THE PRODUCT IS BLOCKED FOR DELIVERY
AND IS NO LONGER AVAILABLE AS A NEW PART.
INFORMATION ABOUT SUCCESSOR SEE SIMATIC UPDATE ID:
62977695 FOR FURTHER QUESTIONS PLEASE APPROACH
YOUR SIEMENS CONTACT PERSON. SIMATIC OP 277 6"
OPERATOR PANEL 5.7" TFT DISPLAY 4 MB CONFIGURING
MEMORY, CONFIGURABLE WITH WINCC FLEXIBLE 2005
STANDARD SP1 OR HIGHER

General information

Customer-specific configuration Yes

Display

Design of display TFT

Screen diagonal 5.7 in

Number of grayscales 0

Number of colors 256

Color type Colors

Resolution (pixels)

- Horizontal image resolution 320 Pixel
- Vertical image resolution 240 Pixel

Backlighting

- MTBF backlighting (at 25 °C) 60 000 h

Control elements

Control elements Membrane keyboard

Keyboard fonts

- Membrane keyboard
- user-definable label membrane keys Yes

- Function keys

— Number of function keys 24

— Number of function keys with LEDs 18

- System keys Yes

- Numeric/alphabetical input Yes / Yes (only English font can be displayed, only onscreen)

- Multi-key operation Yes

— Number of multi-key operations 2

Touch operation

- Design as touch screen No

Connection type

- Connection for mouse/keyboard/barcode reader

USB / USB / USB

Installation type/mounting

Mounting position vertical

Supply voltage

Type of supply voltage DC

Processor

Processor type RISC 32-bit

Memory

Type of memory Flash / RAM

Memory available for user data 4 Mbyte

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Main memory

- Capacity of main memory, max. 64 Mbyte

Time of day

Clock

- Type Software clock, synchronizable, no battery backup
- retentive No
- synchronizable Yes

Interfaces

Interfaces/bus type 1 x RS422, 1 x RS485, 1 x Ethernet (RJ45)

Number of RS 485 interfaces 1

USB port 1 x USB

Multimedia card/SD card slot 1x Multimedia Card slot, up to 128 MB

Industrial Ethernet

- Industrial Ethernet interface 1 x Ethernet (RJ45)

Protocols

Supports protocol for PROFINET IO Yes

PROFIsafe No

PROFIBUS Yes

Protocols (Ethernet)

- TCP/IP Yes

Further protocols

- EtherNet/IP No
- MODBUS Yes
- other bus systems Yes

Degree and class of protection

Front IP65

IP (at the front) IP65

IP (rear) IP20

Standards, approvals, certificates

Certifications CE, UL

Suitable for safety functions No

Ambient conditions

Ambient temperature during operation

- min. 0 °C
- max. 50 °C

Ambient temperature during storage/transportation

- min. -20 °C
- max. 60 °C

Relative humidity

- Operation, max. 80 %

Operating systems

pre-installed operating system Windows CE

Configuration

Message indicator Yes

Alarm system (incl. buffer and acknowledgment) Yes

Process value display (output) Yes

Process value default (input) possible Yes

Recipe management Yes

Configuration software

- STEP 7 Basic (TIA Portal) No

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- STEP 7 Professional (TIA Portal) No
- WinCC flexible Compact No
- WinCC flexible Standard Yes
- WinCC flexible Advanced Yes
- WinCC Basic (TIA Portal) No
- WinCC Comfort (TIA Portal) Yes
- WinCC Advanced (TIA Portal) Yes
- WinCC Professional (TIA Portal) Yes

- Configuration tool WinCC flexible Standard Version 2005 SP1 or higher (to be ordered separately)

Languages

Online languages

- Number of online/runtime languages 16

Project languages

- Languages per project 32

Functionality under WinCC (TIA Portal)

Libraries Yes

Task planner Yes

Help system Yes

- Number of characters per info text 80

Message system

- Number of alarm classes 32

- Number of messages 4 000

- Bit messages Yes

— Number of bit messages 4 000

- Analog messages Yes

— Number of analog messages 4 000

- System messages HMI Yes

- System messages PLC Yes

- System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)

Yes

- Lines 1

- Number of characters per message 80

- Number of process values per message 8

- Acknowledgment groups

— Number of acknowledgement groups Yes

- Message indicator Yes

- First/last value Yes

Recipe management

- Number of recipes 300

- Data records per recipe 500

- Entries per data record 1 000

- Recipe memory 64 KB integrated Flash, expandable

Variables

- Number of variables per device 2 048

- Number of variables per screen 200

- Number of variables 1 000

- Initial values 2 048

- Type Date & Time 2 048

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Image objects

- Text objects 10,000 text elements
- Number of I/O fields per image 200
- Number of date/time fields 200
- Return Yes
- Graphics object Bit maps, icons, vector graphics

— Icons 1 000

Complex image objects

- Status/control With SIMATIC S7
- dynamic objects Diagrams, bar graphs, sliders, analog display, invisible buttons

— Number of objects per project 1 000

— Number of curve diagrams per image 10

- Methods Trend / profile

- Bar graphs

— Number of bars per chart 10

- Sliders

— Number of slides per image 10

- Pointer instruments

— Number of analog indicators per image 10

- Limit value lines Yes

- Number of alphanumerical fields 300

— alphanumeric fields per image 200

- Number of numerical fields 2 048

— numerical fields per image 200

- Number of password fields 2 048

- Number of visible switches per project 200

— visible switches per image 200

— hidden switches per image 200

- Number of status switches per project 200

— Number of status switches per image 200

- Number of selector switches per project 200

— Selector switches per image 200

- Number of decade switches per project 200

— Decade switches per image 200

- Number of signal lamps per project 200

— Signal lamps per image 200

Attributes for dynamic objects

- Color change Yes
- X/Y movement Yes
- Hide Yes

Lists

- Number of text lists per project 500
- Number of text lists per image 200
- Number of entries per text list 256
- Number of graphics lists per project 400
- Number of graphic lists per image 200
- Number of entries per graphics list 256

Archiving

- Number of archives per device 20

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- Number of measuring points per project 20
- Number of entries per archive 10 000
- Message archive Yes
- Process value archive Yes
- Archiving methods
 - Sequential archive Yes
 - Short-term archive Yes
- Memory location MultiMediaCard
 - Ethernet Yes
- Data storage format
 - CSV Yes
- Online evaluation
 - using trend curves Yes

Filters

- cyclic Yes
- Tolerance Yes
- Change Yes

Security

- Number of user groups 50
- Number of user rights 32
- Password export/import Yes

Logging through printer

- Recording/Printing Alarms, report (shift report), color print, hardcopy

Transfer (upload/download)

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Dimensions

Width of the housing front 308 mm

Height of housing front 204 mm

Mounting cutout, width 281 mm

Mounting cutout, height 177 mm

Overall depth 59 mm

Weights

Weight (without packaging) 1.19 kg