

Siemens 6AV6642-0AA11-0AX1 Manual

Brand	Siemens
Product Series	Sheet15
Product Type	designation TP 177A

Description

6AV6642-0AA11-0AX1

*** Spare part *** SIMATIC Touch Panel TP 177A 5.7" blue mode

STN display, MPI/PROFIBUS DP interface, configurable from WinCC
flexible 2004 Compact HSP Contains open source software which is
provided free of charge. See enclosed CD

General information

Product type designation TP 177A

Display

Design of display STN

Screen diagonal 5.7 in

Color display No

Number of colors 2; Blue levels

Resolution (pixels)

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

Backlighting

- MTBF backlighting (at 25 °C) 50 000 h

Control elements

Control elements Touch screen

Keyboard fonts

- Function keys No
- System keys No
- Numeric keyboard Yes

- alphanumeric keyboard Yes

- hexadecimal keyboard Yes

- Multi-key operation No

Touch operation

- Design as touch screen Yes; analog, resistive

Connection type

- Type of connection for
mouse/keyboard/barcode reader

- / - / -

Installation type/mounting

Mounting position vertical

maximum permissible angle of inclination without
external ventilation

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35°

Supply voltage

Type of supply voltage DC

Input current

Current consumption (rated value) 0.24 A

Starting current inrush I^2t 0.5 A²·s

Power

Active power input, typ. 6 W

Processor

Processor type ARM

Memory

Type of memory Flash / RAM

Memory available for user data 512 kbyte

Type of output

Info LED No

Power LED No

Error LED No

Time of day

Clock

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

Interfaces

Interfaces/bus type 1x RS 422, 1x RS 485 (max. 1.5 Mbit/s)

Number of industrial Ethernet interfaces 0

Number of RS 485 interfaces 1

Number of RS 422 interfaces 1

Number of USB interfaces 0

PC card slot No

CF card slot No

Multimedia card/SD card slot No

Protocols

Supports protocol for PROFINET IO No

PROFIsafe No

PROFIBUS Yes

Protocols (Ethernet)

- TCP/IP No

Further protocols

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

Degree and class of protection

IP (at the front) IP65

NEMA (front) NEMA 4x (when installed)

IP (rear) IP20

Standards, approvals, certificates

Certifications CE, GL, ABS, BV, DNV, LRS, FM Class I Div. 2, UL, CSA, cULus,

EX-Zone 2 (in Vorbereitung), EX-Zone 22 (in Vorbereitung), CTICK, NEMA 4x

cULus Yes

EAC (formerly Gost-R) No

Suitable for safety functions No

Use in hazardous areas

- ATEX Zone 2 Yes
- ATEX Zone 22 Yes
- FM Class I Division 2 Yes

Marine approval

- Germanischer Lloyd (GL) Yes
- American Bureau of Shipping (ABS) Yes
- Bureau Veritas (BV) Yes
- Det Norske Veritas (DNV) Yes
- Lloyds Register of Shipping (LRS) Yes
- Nippon Kaiji Kyokai (Class NK) Yes
- Polski Rejestr Statkow (PRS) 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. 90 %

Operating systems

pre-installed operating system LINUX

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

- Configuration tool WinCC flexible Compact Version 2004 SP1 or higher (to be ordered separately)
- STEP 7 Basic (TIA Portal) No
- STEP 7 Professional (TIA Portal) No
- WinCC flexible Compact Yes
- 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

Languages

Online languages

- Number of online/runtime languages 5

Project languages

- Languages per project 32

Functionality under WinCC (TIA Portal)

Libraries Yes

Number of Visual Basic Scripts

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- Debugging in the simulator No

Task planner Yes

Help system Yes

- Number of characters per info text 70

- Number of tooltips 0

Message system

- Number of alarm classes 32

- Number of messages 1 000

- Bit messages Yes

— Number of bit messages 1 000

- Analog messages Yes

— Number of analog messages 20

- Telegram message procedure Alarm S No

- System messages HMI Yes

- System messages PLC Yes

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

No

- Lines 1

- Number of characters per message 80

- Number of process values per message 8

- Acknowledgment groups Yes

- Message indicator Yes

- acoustic feedback No

- First/last value Yes

Recipe management

- Number of recipes 5

- Data records per recipe 20

- Entries per data record 20

- Recipe memory 32 KB integrated Flash

Variables

- Number of variables per device 500

- Number of variables per screen 30

- Limit values Yes

- Multiplexing Yes

- Structures No

Images

- Number of configurable images 250

- Permanent window/default Yes

- Start screen configurable Yes

- Image selection by PLC Yes

- Image number in the PLC Yes

Image objects

- Text objects 1,000 text elements

- Number of I/O fields per image 30

- Index of screen context No

- Return No

- Graphics object Bit maps, icons, icon (full-screen), vector graphics

— Icons 1

— Icon (full screen) 1

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Complex image objects

- Status/control Not possible
- dynamic objects Diagrams, bar graphs
- Bar graphs

— Number of bars per chart 5

- Limit value lines Yes

Attributes for dynamic objects

- Color change No
- X/Y movement No
- Hide Yes
- Angle of rotation No

Lists

- Number of text lists per project 300
- Number of graphics lists per project 100

Security

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

Data carrier support

- PC card No
- CF card No

Transfer (upload/download)

- Transfer of configuration MPI/PROFIBUS DP, serial, automatic transfer recognition

Process coupling

- Connection to controller S7-200, S7- 300/400, Win AC see section on "System interfaces"

- S7-200 Yes

— PPI (point-to-point) Yes

— PPI network Yes

— MPI Yes

— PROFIBUS DP Yes

— Ethernet No

- S7-300/400 Yes

— MPI Yes

— PROFIBUS DP Yes

— PROFINET No

- S5 No

— serial No

— PROFIBUS DP No

- TI 505 No

- Allen Bradley (DF1) No

- Allen Bradley (DF485) No

- Mitsubishi (FX) No

Dimensions

Width of the housing front 212 mm

Height of housing front 156 mm

Mounting cutout, width 198 mm

Mounting cutout, height 142 mm

Overall depth 44 mm

Weights

www.AutoDCSTech.com

Weight (without packaging) 0.75 kg

Other

free hotline Yes

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