

# SIEMENS

## Product data sheet

## 6AV6642-0AA11-0AX0

**Available as a Spare Part Only - subject to availability - SIMATIC TOUCH PANEL TP 177A 5,7" BLUE  
MODE STN-DISPLAY, MPI/PROFIBUS-DP INTERFACE,**

Supply voltage

Supply voltage

24 V DC

permissible range

+20.4 V to +28.8 V DC

Type of voltage

DC

I<sub>2t</sub>-level / maximum

0.5 A<sup>2</sup>·s

Rated current

0.24 A

Power

6 W

Memory

Type

Flash / RAM

Usable memory for user data

512 KB usable memory for user data

Time of day

Clock

Type

Softwareuhr, ungepuffert

Configuration

Configuration tool

WinCC flexible Compact Version 2004 SP1 or higher  
(to be ordered separately)

2nd configuration kit

WinCC flexible Compact

Version

Version 2004 SP 1

Configuration tool

WinCC flexible

Type

Compact

Display

Display type

STN, 4 Blaustufen

Design of display

STN

Size

5.7"

Screen diagonal

5.7 in

Resolution (WxH in pixel)

320 x 240

Horizontal image resolution

320

Vertical image resolution

240

Color type	Blue levels
[nicht versorgt: TAK_ABT210_001_000]	
MTBF backlighting (at 25 °C)	about 50,000 hours
Operating mode	
Control elements	Touch screen
Operating options	Touch
Connection for mouse/keyboard/barcode reader	- / - / -
external mouse	-
[nicht versorgt: TAK_ABT224_001_000]	
external keyboard	-
[nicht versorgt: TAK_ABT249_001_000]	
Touch screen	analog, resistive
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Multi-key operation	No
[nicht versorgt: TAK_ABT256_001_000]	
Connection for barcode reader	-
Ambient conditions	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	+/- 35 °
max. relative humidity (in %)	90 %
Temperature	
Operation (vertical installation)	0 °C to +50 °C
Operation (max. tilt angle)	0 °C to +40 °C
Transport, storage	-20 °C to +60 °C
Degree of protection	
Front	IP65, NEMA 4x, (when installed)
IP (at the front)	IP65
NEMA	NEMA 4x
Rear	IP20
IP (rear)	IP20
Certifications & standards	
Certifications	CE, GL, ABS, BV, DNV, LRS, FM Class I Div. 2, UL, CSA, cULus, C-TICK, NEMA 4x
Type of output	

Info LED	No
Power LED	No
Error LED	No
LED colors	None
Interfaces	
Interfaces	1 x RS422, 1 x RS485 (max. 1.5 Mbit/s)
Number of interfaces/according to RS 485	1
Transmission rate, max.	1.5 Mbit/s
PC card slot	No
CF card slot	No
Multi Media Card slot	No
USB	No
Ethernet	No
Special interfaces	No
Operating systems	
Operating system	LINUX
other	
free hotline	Yes
Warranty period	1 a
Processor	
Processor	ARM
Processor type	ARM
Functionality under WinCC flexible	
Number of Visual Basic Scripts	Not possible
Debugging in the simulator	No
Task planner	Yes
Help system	Yes
Number of info. texts	320
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of tooltips	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Status/control	Not possible
Message system	

Number of messages	1000
Bit messages	Yes
Analog messages	Yes
Number of bit messages	1000
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of analog messages	0
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of alarm classes	32
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Telegram message procedure Alarm S	No
System messages HMI	Yes
System messages PLC	Yes
System messages, other (Sinumerik, Simotion,...)	No
Message length (in characters)	80
Lines	1
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
Acoustic feedback	No
First/last value	Yes
Message buffer	Ring buffer (n x 256 entries), non-retentive
Recipes	
Recipes	5
Data records per recipe	20
Entries per data record	20
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Recipe memory	32 KB integrated Flash
Number of process images	
Process images	250
Variables	500
Limit values	Yes

Multiplexing	Yes
Structs	No
Image elements	
Text objects	1,000 text elements
Fields per image	30
Variables per image	30
Permanent window/default	Yes
Image selection via PLC	Yes
Index of screen context	No
Start screen configurable	Yes
Image number in the PLC	Yes
Return	N
Graphics object	Bit maps, icons, icon (full-screen), vector graphics
Icons	1
Icon (full screen)	1
Memory requirement for first unit	8600 byte
Memory requirement for each additional unit	8850 byte
dynamic objects	Diagrams, bar graphs
Memory requirement for first unit	1024 byte
Memory requirement for each additional unit	792 byte
Number of curves per diagram	1
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	282 byte
Number of bars per chart	5
Memory requirement for first unit	632 byte
Memory requirement for each additional unit	356 byte
Direction	vertical / horizontal
Limit value lines	Yes
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Memory requirement for first unit	0 byte
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Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Memory requirement for first unit	368 byte
Memory requirement for each additional unit	196 byte
Attributes for dynamic objects	
Color change	No
X/Y movement	No
Hide	Yes
Angle of turn	No
Lists	
Text lists	150
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Graphics list	100
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Libraries	Yes
Security	
Number of user groups	50
Passwords exportable	Yes
Number of user rights	32
Fonts	

Keyboard fonts	US American (English)
Languages	
Online languages	5
Languages per project	32
Memory requirement for first unit	23424 byte
Memory requirement for each additional unit	26400 byte
Configuration languages	D, GB, F, I, E, CHN "traditional", CHN "simplified", DK, FIN, GR, J, KP / ROK, NL, N, PL, P, RUS, S, CZ / SK, TR, H
Character sets	WinCC flexible Standard, symbol languages
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"
S5	No
serial	No
PROFIBUS DP	No
S7-200	Yes
PPI (point-to-point)	Yes
PPI network	Yes
MPI	Yes
PROFIBUS DP	Yes
S7-300/400	Yes
MPI	Yes
PROFIBUS DP	Yes
PROFINET	No
TI 505	No
Point-to-point	No
Network	No
Allen Bradley (DF1)	No
Point-to-point	No
Network	No
Allen Bradley (DF485)	No
Point-to-point	No

Network	No
Mitsubishi (FX)	No
Point-to-point	No
Network	No
Mitsubishi (MP4)	No
Point-to-point	No
Network	No
Telemecanique (ADJUST)	No
Point-to-point	No
Network	No
Telemecanique (Uni-Telway)	No
Point-to-point	No
Network	No
OMRON (LINK/Multilink)	No
Point-to-point	No
Network	No
Modicon (Modbus)	No
Point-to-point	No
Network	No
GE-Fanuc (SNP)	No
Point-to-point	No
Network	No
Functions	
Key repeat	No
TAB sequence	Yes
Calculating functions	Yes
Animate	No
Menu tree editor	No
Unit switchover	No
Service tools/configuration aids	
Clean screen	Yes
Touch calibration	Yes
Backup/restore	Yes
Simulation	No
Device switchover	Yes



Delta transfer	No
Monitoring function for battery and memory	No
Trace (operation archive)	No
Expandability/openness	
Open Platform Program	No
Mechanics	
Type of housing (front)	Plastic
Mounting technology	Clamp terminals
Dimensions	
Front of enclosure (W x H)	212 mm x 156 mm
Mounting cutout/Device depth (W x H/D) in mm	198 mm x 142 mm / 45 mm device depth
Dimensions and weight	
Weight	
Weight	0.75 kg
Status	Apr 26, 2010