



Product data sheet
6AV6642-0AA11-0AX1

SIMATIC TOUCH PANEL TP 177A 5,7" BLUE MODE STN-DISPLAY, MPI/PROFIBUS-DP INTERFACE, CONFIGURABLE WINCC FLEXIBLE 2004 COMPACT HSP UPWARDS; CONTAINS OPEN-SOURCE-SW, WHICH IS PROVIDED FREE OF CHARGE. FOR DETAILS SEE ENCLOSED CD

Supply voltage	
Supply voltage	24 V DC
permissible range	+20.4 V to +28.8 V DC
Type of voltage	DC
Rated current	0.24 A
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
Backlighting	

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	-
Keyboard	
external keyboard	-
Touch operation	
Touch screen	analog, resistive
Design as touch screen	Yes
Keys with LED	0
System keys	No
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Multi-key operation	No
Barcode reader	
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, EX-Zone 2 (in Vorbereitung), EX-Zone 22 (in Vorbereitung), 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 port	No
Industrial Ethernet interface	No
Special interfaces	No
Operating systems	
Operating system	LINUX
Product function	
Message indicator	Yes
Message system	Yes
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	70
Number of tooltips	0

Status/control	Not possible
With alarm logging system (incl. buffer and acknowledgment)	
Number of messages	1000
Bit messages	Yes
Analog messages	Yes
Number of bit messages	1000
Number of analog messages	20
Number of alarm classes	32
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
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
dynamic objects	Diagrams, bar graphs
Number of bars per chart	5
Direction	vertical / horizontal
Limit value lines	Yes
Attributes for dynamic objects	
Color change	No
X/Y movement	No
Hide	Yes
Angle of turn	No
Lists	
Text lists	300
Graphics list	100
Libraries	Yes
Security	
Number of user groups	50
Passwords exportable	Yes
Number of user rights	32
Data carrier support	
PC card	No
CF card	No
Multi Media Card	No
Fonts	
Keyboard fonts	US American (English)
Languages	
Online languages	5

Languages per project	32
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	Tahoma, WinCC flexible Standard, symbol languages, 1 additional character set can be loaded
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
Ethernet	No
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	Yes
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)	198 mm x 142 mm / 44 mm device depth
Dimensions and weight	
Weight	
Weight	0.75 kg
Status	Oct 18, 2010