

SIEMENS

Product data sheet

6AV6640-0CA11-0AX1


SIMATIC TOUCH PANEL TP 177MICRO FOR SIMATIC S7-200 5.7" BLUE MODE STN DISPLAY CONFIGURABLE WINCC FLEXIBLE 2004 MICRO HSP UPWARDS;
CONTAINS OPEN-SOURCE-SW, WHICH IS PROVIDED FREE OF CHARGE. FOR DETAILS SEE ENCLOSED CD

Display	
Design of display	STN
Screen diagonal	5.7 in
Size	5.7"
Display type	STN, 4 blue levels
Color type	Blue levels
Resolution (pixels)	
Horizontal image resolution	320
Vertical image resolution	240
Resolution (WxH in pixel)	320 x 240
Backlighting	
MTBF backlighting (at 25 °C)	about 50000 hours
Control elements	
Control elements	Touch screen
Operating mode	

Operating options	Touch
Function keys, programmable	none
Keyboard fonts	
Keys with LED	0
freely inscribable membrane keys	No
Number of function keys with LEDs	0
System keys	No
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Multi-key operation	No
Touch operation	
Touch screen	Analog, resistive
Supply voltage	
Supply voltage	24 V DC
Input current	
Rated current	0.24 A
Inrush current A ² s	0.5 A ² s
Power	
Power	6 W
Processor	
Processor	ARM
Processor type	ARM
Memory	
Type	Flash
Usable memory for user data	256 KB usable memory for user data
Time of day	
Clock	
Type	Software clock, no battery backup
Interfaces	
Interfaces	1 x RS485 (max. 187.5 Mbit/s)
Number of RS 485 interfaces	1
Transmission rate, max.	187.5 kbit/s
Degree and class of protection	

Front	IP65, NEMA 4x (when installed)
Type of protection	IP20
IP (at the front)	IP65
NEMA	NEMA 4X
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), C-TICK, NEMA 4x
FM Class I Div. 2	Yes
GL	Yes
ABS	Yes
BV	Yes
DNV	Yes
LRS	Yes
Class NK	Yes
PRS	No
Gost-R	No
Suitable for safety functions	No
Use in hazardous areas	
EX zone 2	Yes
EX zone 22	Yes
Ambient conditions	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	+/- 35 °
Storage/transport temperature	
Transport, storage	-20 °C to +60 °C
Relative humidity	
max. relative humidity	90 %
Operating systems	
Operating system	LINUX
Configuration	
Message indicator	Yes

With alarm logging system (incl. buffer and acknowledgment)	Yes
Configuration software	
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)	No
WinCC Advanced (TIA Portal)	No
WinCC Professional (TIA Portal)	No
Configuration tool	WinCC flexible Micro Version 2004 SP1, HSP or higher (to be ordered separately)
2nd configuration kit	WinCC flexible Micro
Version	Version 2004 SP 1; HSP
Configuration tool	WinCC flexible
Type	Micro
Languages	
Online languages	
Number of online/runtime languages	5
Languages	
Languages per project	32
Functionality under WinCC flexible	
Libraries	Yes
Task planner	Yes
Help system	Yes
Number of characters per info text	320
Number of tooltips	0
With alarm logging system (incl. buffer and acknowledgment)	
Number of alarm classes	32
Number of messages	500
Bit messages	Yes
Analog messages	Yes

Number of bit messages	500
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,...)	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
Variables	
Number of variables per device	250
Number of variables per screen	20
Limit values	Yes
Multiplexing	Yes
Structs	No
Images	
Number of configurable images	250
Permanent window/default	Yes
Start screen configurable	Yes
Image selection by PLC	No
Image number in the PLC	No
Image objects	
Text objects	500 text elements
Fields per image	20
Date/time fields	0
Index of screen context	No
Return	No
Graphics object	Bit maps, icons, icon (full-screen), vector graphics
Icons	1

Icon (full screen)	1
Complex image objects	
Status/control	Not possible
dynamic objects	Diagrams, bar graphs
Number of curves per diagram	1
Number of bars per chart	5
Limit value lines	Yes
alphanumeric fields	0
alphanumeric fields per image	0
numerical fields	0
numerical fields per image	0
Password errors	0
Number of slides per image	0
Number of analog indicators per image	0
Number of visible switches per project	0
visible switches per image	0
hidden switches per image	0
Number of status switches per project	0
Button status switches per image	0
Number of selector switches per project	0
Selector switches per image	0
Number of decade switches per project	0
Decade switches per image	0
Number of signal lamps per project	0
Signal lamps per image	0
Attributes for dynamic objects	
Color change	No
X/Y movement	No
Hide	Yes
Angle of turn	No
Lists	
Number of text lists per project	150
Number of graphics lists per project	100

Security	
Number of user groups	1
Number of users	1
Password export/import	Yes
Transfer (upload/download)	
Transfer of configuration	serial
Process coupling	
Connection to controller	for S7-200, see section on "System interfaces"
S7-200	Yes
PPI (point-to-point)	Yes
PPI network	Yes
MPI	Yes
PROFIBUS DP	No
S7-300/400	No
MPI	No
PROFIBUS DP	No
PROFINET	No
S5	No
serial	No
PROFIBUS DP	No
TI 505	No
Allen Bradley (DF1)	No
Allen Bradley (DF485)	No
Mitsubishi (FX)	No
Mitsubishi (MP4)	No
Telemecanique (ADJUST)	No
Telemecanique (Uni-Telway)	No
OMRON (LINK/Multilink)	No
Modicon (Modbus)	No
GE-Fanuc (SNP)	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
I/O / Options	
I/O devices	
Multi Media Card	No
Dimensions	
Front of enclosure (W x H)	212 mm x 156 mm
Weight	
Weight	0.75 kg
other	
free hotline	Yes
Warranty period	1 a
Status	Jul 17, 2012