

# SIEMENS

## Product data sheet

## 6AV6642-0BA01-1AX0

**Available as a Spare Part Only - subject to availability - SIMATIC TOUCHPANEL TP177B PN/DP STN 265  
COLOR-DISPLAY MPI-/PROFIBUS-DP - PROTOCOL**

Supply voltage	
Supply voltage	24 V DC
permissible range	+18 V to +30 V DC
Type of voltage	DC
Memory	
Type	Flash / RAM
Usable memory for user data	2048 KB usable memory for user data
Time of day	
Clock	
Type	Hardwareuhr, synchronisierbar, ungepuffert
Configuration	
Configuration tool	WinCC flexible Compact Version 2005 or higher (to be ordered separately)
2nd configuration kit	WinCC flexible Compact
Version	Version 2005
Configuration tool	WinCC flexible
Type	Compact
Display	
Display type	STN, 256 Farben
Design of display	STN
Size	5.7" (120 mm x 90 mm)
Screen diagonal	5.7 in
Resolution (WxH in pixel)	320 x 240
Color type	Colors
[nicht versorgt: TAK_ABT210_001_000]	
MTBF backlighting (at 25 °C)	about 50,000 hours
Expansions for operator control of the process	
DP direct LEDs (LEDs as S7 output I/O)	F1...F8, K1...K18

DP direct keys (screen buttons and keys as S7 input I/O )	F1...F14, K1...K18, Number of bytes for configurable buttons: 4
Operating mode	
Control elements	Touch screen
Operating options	Touch
Connection for mouse/keyboard/barcode reader external mouse	USB / USB / - USB
[nicht versorgt: TAK_ABT224_001_000] external keyboard	USB
[nicht versorgt: TAK_ABT249_001_000] Touch screen	analog, resistive
Design as touch screen	Yes
System keys	Yes
Numeric/alphabetical input hexadecimal keyboard	Yes / Yes 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 4, NEMA 4x, NEMA 12 (when installed)
IP (at the front)	IP65
NEMA	NEMA 4, NEMA 4x, NEMA 12
Rear	IP20
IP (rear)	IP20
Certifications & standards	

Certifications	CE, GL, ABS, BV, DNV, LRS, PRS, FM Class I Div. 2, UL, CSA, cULus, EX-Zone 2/22, Gost-R, C-TICK, NEMA 4, NEMA 4x, NEMA 12
I/O / Options	
I/O devices	Printer
Interfaces	
Interfaces	RS232 optional, 1 x RS422, 1 x RS485, 1 x Ethernet (RJ45) (max. 12 Mbit/s)
Number of interfaces/according to RS 485	1
Transmission rate, max.	12 Mbit/s
CF card slot	No
Multi Media Card slot	1 x Multi Media Card slot
USB	1 x USB
Ethernet	1 x Ethernet (RJ45)
Ethernet status LED	1
Special interfaces	No
Operating systems	
Operating system	Windows CE
Product function	
Message indicator	Yes
Message system	Yes
Process value display (output)	Yes
Process value default (input)	Yes
Recipe administration	Yes
Additional software components loadable	Yes
other	
free hotline	Yes
Warranty period	1 a
Processor	
Processor	RISC 32-bit, 200 MHz
Processor type	RISC 32-bit
Functionality under WinCC flexible	
Applications/options	Sm@rtService, Sm@rtAccess
Task planner	Yes
Help system	Yes
Number of info. texts	70

Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Status/control	with SIMATIC S7
Message system	
Number of messages	2000
Bit messages	Yes
Analog messages	Yes
Number of bit messages	2000
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of analog messages	2000
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
System messages HMI	Yes
System messages PLC	Yes
Message length (in characters)	80
Lines	1
Number of process values per message	8
Acknowledgment groups	99
Message indicator	Yes
Acoustic feedback	No
First/last value	Yes
Message buffer	Ring buffer (n x 256 entries), retentive, maintenance-free
Recipes	
Recipes	100
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Data records per recipe	200
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Entries per data record	200

Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Recipe memory	32 KB integrated Flash, expandable
Number of process images	
Process images	500
Variables	1000
Type Date & Time	1000
Number of internal variable	1000
Initial values	1000
Limit values	Yes
Multiplexing	Yes
Structs	No
Image elements	
Text objects	2,500 text elements
Fields per image	50
Variables per image	50
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	Y
Graphics object	Bit maps, icons, icon (full-screen), vector graphics
Icons	500
Memory requirement for first unit	270 byte
Memory requirement for each additional unit	270 byte
Icon (full screen)	50
Memory requirement for first unit	9000 byte
Memory requirement for each additional unit	8200 byte
dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
Number of objects per project	500
Number per image	5
Memory requirement for first unit	955 byte
Memory requirement for each additional unit	672 byte

Write direction	horizontal
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	280 byte
Online operation of trends trigger	Compress / shift Bit / Time
Methods	Trend
Limit value lines	Yes
Number of bars per chart	5
Memory requirement for first unit	560 byte
Memory requirement for each additional unit	350 byte
Direction	vertical / horizontal
Limit value lines	Yes
alphanumeric fields	1000
alphanumeric fields per image	100
Memory requirement for first unit	490 byte
Memory requirement for each additional unit	320 byte
numerical fields	1000
numerical fields per image	100
Memory requirement for first unit	490 byte
Memory requirement for each additional unit	320 byte
Date and time field	30
Memory requirement for first unit	1536 byte
Memory requirement for each additional unit	196 byte
Password errors	1000
Memory requirement for first unit	360 byte
Memory requirement for each additional unit	188 byte
Number of slides per image	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Number of analog indicators per image	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Number of visible switches per project	1000
visible switches per image	100
Memory requirement for first unit	552 byte

Memory requirement for each additional unit	299 byte
hidden switches per image	100
Memory requirement for first unit	136 byte
Memory requirement for each additional unit	88 byte
Number of status switches per project	1000
Button status switches per image	100
Memory requirement for first unit	624 byte
Memory requirement for each additional unit	366 byte
Number of selector switches per project	1000
Selector switches per image	100
Memory requirement for first unit	560 byte
Memory requirement for each additional unit	350 byte
Number of decade switches per project	0
Decade switches per image	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Number of signal lamps per project	1000
Signal lamps per image	100
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Attributes for dynamic objects	
Color change	Yes
X/Y movement	Yes
Hide	Yes
Angle of turn	No
Lists	
Text lists	300
Number of text lists per image	10
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of entries in text lists	30
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Graphics list	100
Number of graphic lists per image	10

Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of entries in graphics lists	30
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
Data carrier support	
PC card	No
CF card	No
Multi Media Card	Yes
Recording	
Recording/Printing	Alarms, report (shift report), color print, hardcopy
Printer driver	ESC/P2, PCL3/PCL6
Fonts	
Keyboard fonts	US American (English)
Languages	
Online languages	16
Languages per project	32
Memory requirement for first unit	19080 byte
Memory requirement for each additional unit	22594 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	Tahoma, WinCC flexible Standard, symbol languages, 1 additional character sets can be loaded, all freely scalable
Transfer (upload/download)	
Transfer of configuration	MPI/PROFIBUS DP, serial, USB, Ethernet, by means of external storage medium, automatic transfer recognition
Process coupling	



Connection to controller	S5, S7-200, S7- 300/400, Win AC, PC (TCP/IP), SINUMERIK, SIMOTION, Allen Bradley (DF1), Mitsubishi (FX), Telemecanique (ADJUST), Modicon (Modbus), for further non-Siemens drivers, see section on "System interfaces"
S5	Yes ; only PROFIBUS DP
serial	No
PROFIBUS DP	Yes
S7-200	Yes
PPI (point-to-point)	Yes
PPI network	No
MPI	Yes
PROFIBUS DP	Yes
S7-300/400	Yes
MPI	Yes
PROFIBUS DP	Yes
PROFINET	Yes
TI 505	No
Point-to-point	No
Network	No
Allen Bradley (DF1)	Yes
Point-to-point	Yes
Network	Yes
Allen Bradley (DF485)	No
Point-to-point	No
Network	No
Mitsubishi (FX)	Yes
Point-to-point	Yes
Network	No
Telemecanique (ADJUST)	Yes
Point-to-point	Yes
Network	Yes
OMRON (LINK/Multilink)	No
Point-to-point	No
Network	No
Modicon (Modbus)	Yes

Point-to-point	Yes
Network	Yes
Functions	
Key repeat	No
TAB sequence	Yes
Calculating functions	Yes
Animate	Yes
Menu tree editor	Yes
Unit switchover	No
Service tools/configuration aids	
Clean screen	Yes
Touch calibration	Yes
Backup/restore	Yes
Simulation	Yes
Device switchover	Yes
Delta transfer	Yes
Monitoring function for battery and memory	Yes
Trace (operation archive)	No
Expandability/openness	
Open Platform Program	Yes
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 / 46 mm device depth
Dimensions and weight	
Weight	
Weight	0.8 kg
Status	Apr 26, 2010