SIEMENS

Product data sheet 6AV6645-0BB01-0AX0

SIMATIC MOBILE PANEL 177 PN WITH INTEGRATED ENABLING BUTTON AND STOP BUTTON, CONFIGURABLE W. WINCC FLEXIBLE COMPACT VERSION 2005 AND HIGHER OR TIA PORTAL V11 AND HIGHER



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Display	
Design of display	STN
Screen diagonal	5.7 in
Size	5.7" (121 mm x 92 mm)
Display type	STN, 256 colors
Number of colors	256
Number of grayscales	256
Color type	Colors
Resolution (pixels)	
Horizontal image resolution	320
Vertical image resolution	240
Resolution (WxH in pixel)	320 x 240
Backlighting	
MTBF backlighting (at 25 °C)	about 50,000 hours
MTBF backlighting (at 25 °C)	50000 h
Dimmable backlight	No
Control elements	
Operating options	Keys and Touch
Function keys, programmable	14 function keys, 8 with LEDs

subject to modifications
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Keyboard fonts	
Number of function keys	14
Keys with LED	Yes ; 8 with LED
freely inscribable membrane keys	Yes
Number of function keys with LEDs	8
Multi-key operation	Yes
Number of multi-key operations	2
System keys	Yes
Number of configurable system keys	14
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Multi-key operation	No
Touch operation	
Touch screen	Analog, resistive
Design as touch screen	Yes
Special operator controls	
Stop button	Yes
Acknowledgement button	Yes
Key-operated switch	No
Illuminated pushbutton	No
Handwheel	No
Supply voltage	
Supply voltage	via connection box
Processor	
Processor	RISC 32-bit, 200 MHz
Processor type	RISC 32-bit
Drives	
Diskette drive	No
CD-ROM	No
Hard disk	No
Memory	
Type	Flash / RAM
Usable memory for user data	2048 KB of usable memory for user data / no user memory for options
Type of output	
Info LED	No
Power LED	No
Error LED	No
Interfaces	

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Interfaces	1 x RS485, 1 x Ethernet (RJ45)
Number of RS 485 interfaces	1
Transmission rate, max.	0 Mbit/s
Number of USB interfaces	0
USB port	No
PC card slot	No
CF card slot	No
Multimedia card/SD card slot	combined
Number of parallel interfaces	0
Special interfaces	1 x special interfaces
Industrial Ethernet	
Industrial Ethernet interface	1 x Ethernet (RJ45)
Industrial Ethernet status LED	0
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
Supports protocol for PROFIsafe	No
PROFIBUS	No
Protocols (Ethernet)	
TCP/IP	Yes
Further protocols	
AS-i	No
CAN	No
INTERBUS	No
MODBUS	Yes
Data highway	No
DeviceNet	No
Local Operating Network	No
SUCOnet	No
other bus systems	Yes
Degree and class of protection	
IP (at the front)	IP65
IP65 enclosure	Yes
Standards, approvals, certificates	
Certifications	CE, cULus, C-TICK, SIBE
CE mark	Yes
cULus	Yes
RCM (former C-TICK)	Yes

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Highest safety class achievable in safety mode	
Performance level according to EN ISO 13849-1:2008	d
Use in hazardous areas	
cULus Class I Zone 2, Division 2	No
FM Class I Division 2	No
Ambient conditions	
Drop height	1.5 m
Operating temperature	
Operation	0 °C to +40 °C
Storage/transport temperature	
Transport, storage	-20 °C to +60 °C
Relative humidity	
max. relative humidity	80 %
Operating systems	
Operating system	Windows CE
Configuration	
Message indicator	Yes
With alarm logging system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe administration	Yes
Configuration software	
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
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
Languages	
Online languages	
Number of online/runtime languages	5

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Languages	
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	Sm@rtService, Sm@rtAccess
Pocket Word	No
Pocket Excel	No
PDF Viewer	No
Media Player	No
SIMATIC WinCC Sm@rtServer	Yes
SIMATIC WinCC Audit	No
Connection point identification	Yes
Number of Visual Basic Scripts	No
Debugging in the simulator	No
Task planner	Yes
Help system	Yes
Number of characters per info text	70
Message system	
Number of alarm classes	32
Number of messages	2000
Bit messages	Yes
Analog messages	Yes
Number of bit messages	2000
Number of analog messages	50
Telegram message procedure Alarm S	No
System messages HMI	Yes
System messages PLC	No
System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	No
Message length (in characters)	80
Lines	1
Number of process values per message	8
Message indicator	Yes
Acoustic feedback	No
First/last value	Yes
Recipe administration	
Number of recipes	100
Data records per recipe	200
Entries per data record	200

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Recipe memory	32 KB integrated Flash, expandable
Variables	
Number of variables per device	1024
Number of variables per screen	50
Limit values	Yes
Multiplexing	Yes
Structs	Yes
Images	
Number of configurable images	500
Permanent window/default	Yes
Start screen configurable	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
Text objects	2,500 text elements
Fields per image	50
Index of screen context	No
Return	Yes
Graphics object	Bit maps, vector graphics
Complex image objects	
Status/control	With SIMATIC S7
dynamic objects	Diagrams, bar graphs, sliders, invisible buttons
Methods	Trend / profile
Limit value lines	Yes
Number of bars per chart	5
Limit value lines	Yes
Number of visible switches per project	1000
Attributes for dynamic objects	
Color change	Yes
X/Y movement	Yes
Hide	Yes
Angle of turn	No
Lists	
Number of text lists per project	300
Number of entries per text list	30
Number of graphics lists per project	100
Archiving	
Number of archives per device	0

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Message archive	No
Process value archive	No
Archiving methods	
Sequential archive	No
Short-term archive	No
Memory location	
PC card	No
CF card	No
USB memory	No
Ethernet	No
Data storage format	
CSV	No
TXT	No
Online evaluation	
Using trend curves	No
Security	
Number of user groups	50
Number of user rights	32
Password export/import	Yes
Data carrier support	
PC card	No
CF card	No
Diskette drive	No
Hard disk	No
Logging through printer	
Recording/Printing	-
Transfer (upload/download)	
Transfer of configuration	Serial, Ethernet, automatic transfer recognition
Process coupling	
Connection to controller	S7-200, S7- 300/400, Win AC, PC (TCP/IP), SIMOTION, Modicon (Modbus), see the chapter "System interfaces"
S7-1200	Yes ; with restrictions
S7-1500	Yes ; with restrictions
S7-200	Yes
PPI (point-to-point)	No
PPI network	No
MPI	No
PROFIBUS DP	No
Ethernet	Yes

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S7-300/400	Yes
MPI	No
PROFIBUS DP	No
PROFINET	Yes
LOGO!	No
SINUMERIK	Yes
SIMOTION	Yes
S5	No
serial	No
PROFIBUS DP	No
TI 505	No
Allen Bradley (EtherNet/IP)	Yes
Allen Bradley (DF1)	No
Allen Bradley (DF485)	No
Mitsubishi (MC TCP/IP)	Yes
Mitsubishi (FX)	No
Mitsubishi (MP4)	No
Telemechanique (ADJUST)	No
Telemecanique (Uni-Telway)	No
OMRON (FINS TCP)	No
OMRON (LINK/Multilink)	No
Modicon (Modbus TCP/IP)	Yes
Modicon (Modbus)	No
GE-Fanuc (SNP)	No
Functions	
Key repeat	No
TAB sequence	Yes
Calculating functions	Yes
Animate	Yes
Menu tree editor	No
Unit switchover	No
Service tools/configuration aids	
Clean screen	No
Touch calibration	Yes
Backup/restore	Yes
Simulation	Yes
Device switchover	Yes
Delta transfer	Yes
Monitoring function for battery and memory	Yes

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Trace (operation archive)	No
Expandability/openness	
Open Platform Program	Yes
I/O/Options	
I/O devices	Printer
Printer	Yes
Multi Media Card	Yes
SD card	No
USB memory	No
Connection method	
Design of electrical connection, plug-in connection	1
Mechanics/material	
Type of housing (front)	Plastic
Plastic	Yes
Dimensions	
Housing diameter/depth (mm)	Dia 245 mm / D 58 mm
Weights	
Weight (without packaging)	1.3 kg
other	
free hotline	Yes
Warranty period	1 a
Status	Mar 29, 2014

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