

# SIEMENS

## Product data sheet

**6AV6645-0BC01-0AX0**

SIMATIC MOBILE PANEL 177 PN W. INTEGRATED ENABLING BUTTON, STOP BUTTON, HANDWHEEL, KEY SWITCH AND ILLUMINATED PUSHBUTTON UNIT, CONFIGURABLE W. WINCC FLEXIBLE COMPACT VERSION 2005 AND HIGHER



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 greyscales	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
Control elements	
Operating mode	

Operating options	Keys and Touch
Function keys, programmable	14 function keys, 8 with LEDs
<b>Keyboard fonts</b>	
Keys with LED	Yes
freely inscribable membrane keys	Yes
Number of function keys with LEDs	8
Multi-key operation	Yes
Number of multi-key operations	2
Number of configurable system keys	14
System keys	Yes
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Multi-key operation	No
<b>Touch operation</b>	
Touch screen	Analog, resistive
<b>Special operator controls</b>	
Illuminated pushbutton	Yes
Handwheel	Yes
<b>Supply voltage</b>	
Supply voltage	via connection box
Design of electrical connection, plug-in connection	1
<b>Processor</b>	
Processor	RISC 32-bit, 200 MHz
Processor type	RISC 32-bit
<b>Memory</b>	
Type	Flash / RAM
Usable memory for user data	2048 KB of usable memory for user data / no user memory for options
<b>Type of output</b>	
Info LED	No
Power LED	No
Error LED	No
<b>Drives</b>	
Diskette drive	No

CD-ROM	No
Hard disk	No
<b>Interfaces</b>	
Interfaces	1 x RS485, 1 x Ethernet (RJ45)
Number of RS 485 interfaces	1
Transmission rate, max.	0 Mbit/s
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
<b>Industrial Ethernet</b>	
Industrial Ethernet interface	1 x Ethernet (RJ45)
Industrial Ethernet status LED	0
<b>Protocols</b>	
PROFIBUS	Yes
<b>Protocols (Ethernet)</b>	
TCP/IP	Yes
<b>Further protocols</b>	
AS-i	No
CAN	No
INTERBUS	No
MODBUS	Yes
Data highway	No
DeviceNet	No
Local Operating Network	No
SUCOnet	No
other bus systems	Yes
<b>Degree and class of protection</b>	
IP65 enclosure	Yes
<b>Standards, approvals, certificates</b>	
Certifications	CE, cULus, C-TICK, SIBE

Safety category according to EN954-1	Safety category according to EN954-1 (acknowledgment button, STOP button if present) 3
<b>Ambient conditions</b>	
Drop height	1.5 m
<b>Operating temperature</b>	
Operation	0 °C to +40 °C
<b>Storage/transport temperature</b>	
Transport, storage	-20 °C to +60 °C
<b>Relative humidity</b>	
max. relative humidity	80 %
<b>Operating systems</b>	
Operating system	Windows CE
<b>Configuration</b>	
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
<b>Configuration software</b>	
WinCC flexible Compact	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
<b>Languages</b>	
<b>Online languages</b>	
Number of online/runtime languages	5
<b>Languages</b>	
Languages per project	32
<b>Functionality under WinCC flexible</b>	
Libraries	Yes

Applications/options	Sm@rtService, Sm@rtAccess
Connection point identification	Yes
Number of Visual Basic Scripts	Not possible
Debugging in the simulator	No
Task planner	Yes
Help system	Yes
Number of characters per info text	70
<b>With alarm logging system (incl. buffer and acknowledgment)</b>	
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,..)	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
<b>Recipes</b>	
Number of recipes	100
Data records per recipe	200
Entries per data record	200
Recipe memory	32 KB integrated Flash, expandable
<b>Variables</b>	
Number of variables per device	1024
Number of variables per screen	50
Limit values	Yes

Multiplexing	Yes
Structs	Yes
<b>Images</b>	
Number of configurable images	500
Permanent window/default	Yes
Start screen configurable	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
<b>Image objects</b>	
Text objects	2,500 text elements
Fields per image	50
Index of screen context	No
Return	Yes
Graphics object	Bit maps, vector graphics
<b>Complex image objects</b>	
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
<b>Attributes for dynamic objects</b>	
Color change	Yes
X/Y movement	Yes
Hide	Yes
Angle of turn	No
<b>Lists</b>	
Number of text lists per project	300
Number of entries per text list	30
Number of graphics lists per project	100
<b>Archiving</b>	
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
<b>Security</b>	
Number of user groups	50
Number of user rights	32
Password export/import	Yes
<b>Data carrier support</b>	
PC card	No
CF card	No
Diskette drive	No
Hard disk	No
<b>Logging through printer</b>	
Recording/Printing	-
<b>Transfer (upload/download)</b>	
Transfer of configuration	Serial, Ethernet, automatic transfer recognition
<b>Process coupling</b>	
Connection to controller	S7-200, S7- 300/400, Win AC, PC (TCP/IP), SIMOTION, Modicon (Modbus), see the chapter "System interfaces"
S7-200	Yes
PPI (point-to-point)	No
PPI network	No

MPI	No
PROFIBUS DP	No
Ethernet	Yes
S7-300/400	Yes
MPI	No
PROFIBUS DP	No
PROFINET	Yes
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)	Yes ; MODBUS TCP/IP protocol
GE-Fanuc (SNP)	No
<b>Functions</b>	
Key repeat	No
TAB sequence	Yes
Calculating functions	Yes
Animate	Yes
Menu tree editor	No
Unit switchover	No
<b>Service tools/configuration aids</b>	
Clean screen	No
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
<b>Expandability/openness</b>	
Open Platform Program	Yes
<b>I/O / Options</b>	
I/O devices	Printer
Multi Media Card	Yes
SD card	No
USB memory	No
<b>Mechanics/material</b>	
Type of housing (front)	Plastic
<b>Dimensions</b>	
Housing diameter/depth (mm)	Dia 245 mm / D 58 mm
<b>Weight</b>	
Weight	1.3 kg
<b>other</b>	
free hotline	Yes
Warranty period	1 a
Status	Jul 17, 2012