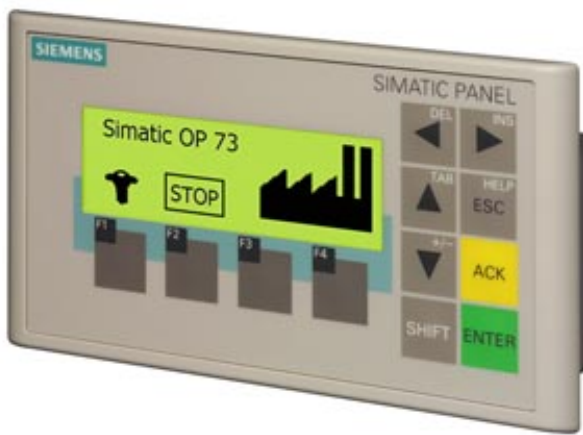


# SIEMENS

## Product data sheet

**6AV6641-0AA11-0AX0**


SIMATIC OPERATOR PANEL OP 73 3" LC DISPLAY, BACKLIT, WITH GRAPHICS CAPABILITY, MPI-/PROFIBUS-DP INTERFACE, UP TO 1.5MB, CONFIGURABLE WINCC FLEXIBLE 2004 COMPACT HSP UPWARDS; CONTAINS OPEN-SOURCE-SW, WHICH IS PROVIDED FREE OF CHARGE. FOR DETAILS SEE ENCLOSED CD

General system features	
Customer-specific configuration	No
Display	
Design of display	STN
Size	3"
Screen diagonal	3 in
Display type	STN, Schwarz/Weiss
Color type	Black/white
Resolution (pixels)	
Horizontal image resolution	160
Vertical image resolution	48
Resolution (WxH in pixel)	160 x 48
Backlighting	
MTBF backlighting (at 25 °C)	about 100,000 hours
Control elements	

Control elements	Membrane keyboard
<b>Operating mode</b>	
Operating options	Keys
Function keys, programmable	4 function keys
Connection for mouse/keyboard/barcode reader	- / - / -
external mouse	-
<b>Keyboard</b>	
Keys with LED	Yes
external keyboard	-
freely inscribable membrane keys	No
Number of function keys with LEDs	0
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Multi-key operation	Yes
<b>Touch operation</b>	
Design as touch screen	No
<b>Barcode reader</b>	
Connection for barcode reader	-
<b>Supply voltage</b>	
<b>Input voltage</b>	
Type of voltage	DC
permissible range	+20.4 V to +28.8 V DC
Supply voltage	24 V DC
<b>Input current</b>	
Rated current	0.1 A
I <sup>2</sup> t-level / maximum	0.5 A <sup>2</sup> ·s
<b>Processor</b>	
Processor	ARM
Processor type	ARM
<b>Memory</b>	
Type	Flash
Usable memory for user data	256 KB usable memory for user data
<b>Time of day</b>	

<b>Clock</b>	
Type	Software clock, no battery backup
<b>Interfaces</b>	
Interfaces	1 x RS485 (max. 1.5 Mbit/s)
Number of RS 485 interfaces	1
Transmission rate, max.	1.5 Mbit/s
<b>Ambient conditions</b>	
<b>Operating temperature</b>	
Operation (vertical installation)	0 °C to +50 °C
Operation (max. tilt angle)	0 °C to +40 °C
<b>Storage/transport temperature</b>	
Transport, storage	-20 °C to +60 °C
<b>Relative humidity</b>	
max. relative humidity	90 %
<b>Mounting position</b>	
maximum permissible angle of inclination without external ventilation	+/- 80 °
<b>Degree and class of protection</b>	
Front	IP65, NEMA 4x, (when installed)
IP (at the front)	IP65
NEMA	NEMA 4x
Rear	IP20
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
Certifications	CE, GL, ABS, BV, DNV, LRS, UL, CSA, cULus, C-TICK, NEMA 4x
<b>Operating systems</b>	
Operating system	LINUX
<b>Configuration</b>	
<b>Configuration software</b>	
Configuration tool	WinCC flexible Compact Version 2004 SP 1 or higher; HSP OP 73 (to be ordered separately)
2nd configuration kit	WinCC flexible Compact
Version	Version 2004 SP 1; HSP OP 73

Configuration tool	WinCC flexible
Type	Compact
<b>Functionality under WinCC flexible</b>	
Task planner	Yes
Help system	Yes
Number of info. texts	320
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of tooltips	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Status/control	Not possible
<b>With alarm logging system (incl. buffer and acknowledgment)</b>	
Number of messages	500
Bit messages	Yes
Analog messages	Yes
Number of bit messages	500
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of analog messages	0
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
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
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	No

Acoustic feedback	No
First/last value	Yes
Message buffer	Ring buffer (n x 256 entries), non-retentive
<b>Recipes</b>	
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
<b>Number of process images</b>	
Process images	500
Variables	1000
Limit values	Yes
Multiplexing	Yes
Structs	No
<b>Image elements</b>	
Text objects	1,000 text elements
Fields per image	20
Variables per image	20
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)
Icons	1
Icon (full screen)	1
Memory requirement for first unit	8600 byte
Memory requirement for each additional unit	8850 byte
dynamic objects	Bar graphs
Memory requirement for first unit	1024 byte



Color change	No
X/Y movement	No
Hide	Yes
Angle of turn	No
<b>Lists</b>	
Text lists	150
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Graphics list	0
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Libraries	Yes
<b>Security</b>	
Number of user groups	50
Passwords exportable	Yes
Number of user rights	32
<b>Recording</b>	
Recording/Printing	-
<b>Fonts</b>	
Keyboard fonts	US American (English)
<b>Languages</b>	
Online languages	5
Languages per project	32
Memory requirement for first unit	23424 byte
Memory requirement for each additional unit	26400 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	WinCC flexible Standard, symbol languages
<b>Transfer (upload/download)</b>	
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"
S7-200	Yes
PPI (point-to-point)	Yes
PPI network	Yes
MPI	Yes
PROFIBUS DP	Yes
S7-300/400	Yes
MPI	Yes
PROFIBUS DP	Yes
PROFINET	No
S5	No
serial	No
PROFIBUS DP	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
<b>Functions</b>	
Key repeat	Yes
TAB sequence	Yes
Calculating functions	Yes
Animate	No
Menu tree editor	No
Unit switchover	No
<b>Service tools/configuration aids</b>	
Clean screen	No
Touch calibration	No
Backup/restore	Yes
Simulation	No
Device switchover	Yes
Delta transfer	No
Monitoring function for battery and memory	No
Trace (operation archive)	No
<b>Expandability/openness</b>	
Open Platform Program	No
<b>Mounting</b>	
Mounting technology	Clamp terminals
<b>Mechanics/material</b>	
Type of housing (front)	Plastic

Dimensions and weight	
Dimensions	
Front of enclosure (W x H)	154 mm x 84 mm
Mounting cutout/device depth (W x H / D)	138 mm x 68 mm / 28.5 mm device depth
Weight	
Weight	0.25 kg
other	
free hotline	Yes
Warranty period	1 a
Status	May 23, 2011