

SIEMENS

Product data sheet

6AV6641-0BA11-0AX1


SIMATIC OPERATOR PANEL OP77A BACKLIT LC DISPLAY,
 4.5" DISPL. W. GRAPHICS CAPABIL MPI-
 /PROFIBUS-DP INTERFACE UP TO 1,5MB,
 FOR CONFIGURATION 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	4.5"
Screen diagonal	4.5 in
Display type	STN, Schwarz/Weiss
Color type	Black/white
Resolution (pixels)	
Horizontal image resolution	160
Vertical image resolution	64
Resolution (WxH in pixel)	160 x 64
Backlighting	
MTBF backlighting (at 25 °C)	about 100,000 hours
Control elements	

Control elements	Membrane keyboard
Operating mode	
Operating options	Keys
Function keys, programmable	8 function keys, 4 with LEDs
Connection for mouse/keyboard/barcode reader	- / - / -
external mouse	-
Keyboard fonts	
Keys with LED	Yes
external keyboard	-
freely inscribable membrane keys	Yes
Number of function keys with LEDs	4
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Multi-key operation	Yes
Touch operation	
Design as touch screen	No
Barcode reader	
Connection for barcode reader	-
Supply voltage	
Input voltage	
Type of voltage	DC
permissible range	+20.4 V to +28.8 V DC
Supply voltage	24 V DC
Input current	
Rated current	0.2 A
I ² t-level / maximum	0.5 A ² ·s
Processor	
Processor	ARM
Processor type	ARM
Memory	
Type	Flash / RAM
Usable memory for user data	256 KB usable memory for user data
Type of output	

Info LED	Yes
Power LED	No
Error LED	No
LED colors	Green
Time of day	
Clock	
Type	Software clock, no battery backup
Interfaces	
Interfaces	1 x RS422, 1 x RS485 (max. 1.5 Mbit/s)
USB port	No
PC card slot	No
CF card slot	No
Multi Media Card slot	No
Special interfaces	No
Number of RS 485 interfaces	1
Transmission rate, max.	1.5 Mbit/s
Industrial Ethernet	
Industrial Ethernet interface	No
Ambient conditions	
Operating temperature	
Operation (vertical installation)	0 °C to +50 °C
Operation (max. tilt angle)	0 °C to +40 °C
Storage/transport temperature	
Transport, storage	-20 °C to +60 °C
Relative humidity	
max. relative humidity	90 %
Mounting position	
maximum permissible angle of inclination without external ventilation	+/- 80 °
Degree and class of protection	
Front	IP65, NEMA 4x, NEMA 12 (when installed)
IP (at the front)	IP65
NEMA	NEMA 4x, NEMA 12
Rear	IP20

IP (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, NEMA 12
Operating systems	
Operating system	LINUX
Configuration	
Configuration software	
Configuration tool	WinCC flexible Compact Version 2004 SP 1 and higher; HSP OP 77 (to be ordered separately)
2nd configuration kit	WinCC flexible Compact
Version	Version 2004 SP 1; HSP OP 77
Configuration tool	WinCC flexible
Type	Compact
Functionality under WinCC flexible	
Task planner	Yes
Help system	Yes
Number of info. texts	320
Status/control	Not possible
With alarm logging system (incl. buffer and acknowledgment)	
Number of messages	1000
Bit messages	Yes
Analog messages	Yes
Number of bit messages	1000
Number of analog messages	1000
Number of alarm classes	32
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
Recipes	
Recipes	5
Data records per recipe	20
Entries per data record	20
Recipe memory	32 KB integrated Flash
Number of process images	
Process images	500
Variables	1000
Limit values	Yes
Multiplexing	Yes
Structs	No
Image elements	
Text objects	1,000 text elements
Fields per image	30
Variables per image	30
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	J
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
Memory requirement for each additional unit	792 byte

Memory requirement for first unit	10 byte
Memory requirement for each additional unit	282 byte
Number of bars per chart	5
Direction	vertical / horizontal
Limit value lines	Yes
alphanumeric fields	1000
alphanumeric fields per image	30
numerical fields	1000
numerical fields per image	30
Attributes for dynamic objects	
Color change	No
X/Y movement	No
Hide	Yes
Angle of turn	No
Lists	
Text lists	300
Graphics list	0
Libraries	Yes
Security	
Number of user groups	50
Passwords exportable	Yes
Number of user rights	32
Logging	
Recording/Printing	-
Character sets	
Keyboard fonts	US English
Languages	
Online languages	5
Languages per project	32
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, ideographic languages
Transfer (upload/download)	

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
Ethernet	No
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
Functions	
Key repeat	Yes
TAB sequence	Yes
Calculating functions	Yes
Animate	No
Menu tree editor	No
Unit switchover	No
Service tools/configuration aids	
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
Expandability/openness	
Open Platform Program	No
Mounting	

Mounting technology	Clamp terminals
Mechanics/material	
Type of housing (front)	Plastic
Dimensions and weight	
Dimensions	
Front of enclosure (W x H)	150 mm x 186 mm
Mounting cutout/device depth (W x H / D)	135 mm x 171 mm / 38,5 mm device depth
Weight	
Weight	0.5 kg
other	
free hotline	Yes
Warranty period	1 a
Status	Jul 30, 2011