

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6AV3627-1LK00-1AX0

HMI OPERATOR PANEL

Used with the applicable S5 HMI configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official manufacturer document: 6AV3627-1LK00-1AX0.pdf



Product data sheet**6AV3627-1LK00-1AX0**

OPERATOR PANEL OP27 STN COLOR LC DISPLAY AVAILABLE IN EXCHANGE ONLY.

Supply voltage	
Supply voltage	18 V DC
permissible range	+30 V to +24 V DC
Type of voltage	DC
Rated current	0.3 A
Power	8 W
UPS connectable (serial)	No
Backup battery	
Backup battery	optional 3.6 V
minimum backup duration	4 a
Memory	
Type	Flash / RAM
Usable memory for user data	512 KB usable memory for user data
Time of day	
Clock	
Type	Hardware clock, battery backup, synchronizable
Configuration	
Configuration tool	ProTool Version 3.1 or higher (to be ordered separately)
1st configuration kit	ProTool
Version	Version 3.1
Configuration tool	ProTool
Display	
Display type	STN, 8 Farben
Type	Graphic
Design of display	STN
Size	5.7"
Resolution (WxH in pixel)	240 x 320
Color type	Colors

MTBF backlighting (at 25 °C)	about 40,000 hours
Expansions for operator control of the process	
DP direct LEDs (LEDs as S7 output I/O)	F1...F8, K1...K10
DP direct keys (screen buttons and keys as S7 input I/O)	F1...F14, K1...K10
DC 24 V direct key module/outputs	8
CPI module	16 or 32
Operating mode	
Operating options	Keys
Function keys, programmable	24 function keys, 18 with LEDs
Connection for mouse/keyboard/barcode reader	- / - / -
external mouse	-
external keyboard	-
Touch screen	No
freely inscribable membrane keys	Yes
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Multi-key operation	No
Connection for barcode reader	-
Ambient conditions	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	+/- 35 °
max. relative humidity (in %)	95 %
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
Ambient temperature during storage, minimum	-20 °C
Ambient temperature during storage, maximal	60 °C
Degree of protection	
Front	IP65
IP (at the front)	IP65
Rear	IP20
IP (rear)	IP20
Certifications & standards	

Certifications	PRS, FM Class I Div. 2, UL, EX Zone 22
I/O / Options	
I/O devices	Printer, direct key module, Control Panel Interface
Type of output	
Info LED	Yes
Power LED	No
LED colors	Red, green
Acoustics	No
Interfaces	
Interfaces	1 x TTY, 2 x RS232, 1 x RS422, 1 x RS485 (max. 12 Mbit/s)
Number of interfaces/according to RS 485	1
Transmission rate, max.	12 Mbit/s
PC card slot	1 x PC card slot
CF card slot	No
USB	No
Ethernet	No
Special interfaces	No
Operating systems	
Operating system	RMOS
other	
free hotline	Yes
Warranty period	1 a
Processor	
Processor	X86, 33 MHz
Processor type	X86
Drives	
Design of drive/storage medium, CD-ROM	No
Design of drive/storage medium, diskette	No
Design of drive/storage medium, hard disk	No
Functionality under ProTool	
Applications/options	ProAgent
Alarm clock	No
Clean screen	No
Number of levels for password protection	9

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	10 byte
Memory requirement for each additional unit	10 byte
Status/control	With SIMATIC S5/S7
Message system	
Number of operating messages	2000
Memory requirement for first unit	240 byte
Memory requirement for each additional unit	10 byte
Number of fault messages	2000
Memory requirement for first unit	240 byte
Memory requirement for each additional unit	10 byte
System messages	Yes
Message length (lines x characters)	2 x 35
Number of process values in messages	8
Number of acknowledgement groups	99
Message indicator	Yes
Acoustic feedback	No
First/last value	Yes
Message buffer	Message buffer (n x 256 entries), battery backup, retentive, maintenance-free
Recipes	
Number of recipes	255
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of data records per recipe	500
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of entries per data record	500
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	
Number of process images	300
Memory requirement for first unit	96392 byte
Memory requirement for each additional unit	112 byte
Number of variables	2048
Number of variables of Date & Time type	0
Number of variables of Internal Variable type	2048
Number of initial values	2048
Limit values	Yes
Multiplexing	Yes
Image elements	
Text objects	10,000 text elements
Number of fields per screen	0
Number of variables per screen	200
Permanent window/default	Y
Image selection via PLC	Yes
Index of screen context	No
Start screen configurable	Yes
Image number in the PLC	Yes
Return	Yes
Graphics object	Bit maps, icons, background images, semi-graphics
Number of icons	100
Memory requirement for first unit	252 byte
Memory requirement for each additional unit	283 byte
Number of screen filling icons	50
Memory requirement for first unit	6732 byte
Memory requirement for each additional unit	6565 byte
dynamic objects	Diagrams, bar graphs
Number of objects per project	50
Number per image	5
Memory requirement for first unit	336 byte
Memory requirement for each additional unit	214 byte
Number of curves per diagram	6
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	102 byte

Write direction	horizontal
Online operation of trends	Not possible
trigger	Bit / time
Methods	Trend
Limit value lines	Yes
Number of bars per chart	5
Direction	vertical / horizontal
Limit value lines	Yes
Number of alphanumerical fields	2000
Number of alphanumerical fields per screen	100
Memory requirement for first unit	184 byte
Memory requirement for each additional unit	112 byte
Number of numerical fields	2000
Number of numerical fields per screen	100
Memory requirement for first unit	184 byte
Memory requirement for each additional unit	112 byte
Number of date and time fields	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Number of password fields	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 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	0
Number of visible switches per screen	0
Memory requirement for first unit	88 byte
Memory requirement for each additional unit	48 byte
Number of invisible switches per screen	0
Memory requirement for first unit	88 byte
Memory requirement for each additional unit	48 byte

Number of status switches per project	0
Number of buttons for state switches per screen	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Number of selector switches per project	0
Number of selector switches per screen	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Number of decade switches per project	0
Number of decade switches per screen	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Number of signal lamps per project	1000
Number of indicator lights per screen	100
Memory requirement for first unit	208 byte
Memory requirement for each additional unit	140 byte
Attributes for dynamic objects	
Color change	Yes
X/Y movement	No
Hide	No
Angle of turn	No
Lists	
Number of text lists per project	500
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 per project	255
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of graphics lists per project, max.	400
Number of graphic lists per image, max.	10
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of entries per project	255
Memory requirement for first unit	10 byte

Memory requirement for each additional unit	10 byte
Libraries	No
Data carrier support	
PC card	Yes
CF card	No
Diskette drive	No
Hard disk	No
DVD/CD-ROM	No
Recording	
Recording/Printing	Alarms, report (shift report), color print, hardcopy
Printer driver	ESC/P2, PCL3/PCL6
Character sets	
Keyboard character sets	D/E/F/I/S, Russian
Languages	
Number of online languages	3
Number of online languages per project	20
Memory requirement for first unit	19544 byte
Memory requirement for each additional unit	20904 byte
Configuration languages	D, GB, F, I, E, CHN "traditional", DK, FIN, GR, KP / ROK, NL, N, PL, P, RUS, S, CZ / SK, TR, h
Character sets	Symbol languages, all freely scalable
Transfer (upload/download)	
Transfer of configuration	MPI/PROFIBUS DP (where available), serial
Process coupling	
Connection to controller	S5, S7-200, S7- 300/400, TI 505, Mitsubishi (FX), Telemecanique (ADJUST), Modicon (Modbus), for further non-Siemens drivers, see section on "System interfaces"
S5	Yes
serial	Yes
PROFIBUS DP	Yes
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 IO	No
TI 505	Yes
Point-to-point	Yes
Network	No
Allen Bradley (DF1)	No
Point-to-point	Yes
Network	Yes
Mitsubishi (FX)	Yes
Point-to-point	Yes
Network	No
Telemechanique (ADJUST)	Yes
Point-to-point	Yes
Network	No
Modicon (Modbus)	Yes
Point-to-point	Yes
Network	Yes
Functions	
Key repeat	No
TAB sequence	No
Calculating functions	Yes
Animate	Yes
Menu tree editor	No
Unit switchover	No
Service tools/configuration aids	
Touch calibration	No
Backup/restore	Yes
Simulation	No
Language tool	No
System messages Edit	No
Device switchover	Yes
Delta transfer	Yes
Monitoring the battery, memory,...	No

Trace (operation archive)	No
Mechanics	
Type of housing (front)	Sheet metal
Mounting technology	Clamp terminals
Dimensions	
Front of enclosure (W x H)	296 mm x 192 mm
Mounting cutout/Device depth (W x H/D) in mm	282 mm x 178 mm / 59 mm device depth
Installation depth with direct key module	94 mm
Installation depth with Control Panel Interface	94 mm
Dimensions and weight	
Weight	
Weight	1.85 kg
Status	Mar 12, 2010