



Product data sheet
6AV3607-1JC20-0AX1

OPERATOR PANEL OP7/DP LC DISPLAY, BACKLIT LED 4 LINES, 20 CHARACTERS/LINE, SIMATIC S7, M7, PROFIBUS-DP 1.5 MBAUD UL/CSA-LISTED

Supply voltage	
Supply voltage	24 V DC
permissible range	+18 V to +30 V DC
Type of voltage	DC
Rated current	0.19 A
UPS connectable (serial)	No
Memory	
Type	Flash / RAM
Usable memory for user data	128 KB usable memory for user data
Time of day	
Clock	
Type	Software clock, synchronizable, no battery backup
Configuration	
Configuration tool	ProTool / Lite Version 2.51 or higher or Version 1 (to be ordered separately)
1st configuration kit	ProTool / Lite
Version	Version 2.51
Configuration tool	ProTool
Type	Lite
Version	Version 1
Display	
Display type	Schwarz/Weiss
Type	Lines
Line display	LC display
Number of lines, max.	4
Characters per line (max.)	20
Character size	8 mm
graphics-enabled	No

Color type	Black/white
MTBF backlighting (at 25 °C)	about 100,000 hours
Expansions for operator control of the process	
DP direct LEDs (LEDs as S7 output I/O)	K1...K4
DP direct keys (screen buttons and keys as S7 input I/O)	F1...F4, K1...K4, Number of bytes for configurable buttons: 1
DC 24 V direct key module/outputs	No
CPI module	No
Operating mode	
Operating options	Keys
Function keys, programmable	8 function keys, 4 with LEDs
Connection for mouse/keyboard/barcode reader	- / - / -
external mouse	-
external keyboard	-
Touch screen	No
Design as 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	+/- 90 °
max. relative humidity (in %)	95 %
Temperature	
Operation (vertical installation)	0 °C to +50 °C
Operation (max. tilt angle)	0 °C to +35 °C
Transport, storage	-25 °C to +70 °C
Ambient temperature during storage, minimum	-25 °C
Ambient temperature during storage, maximal	70 °C
Degree of protection	
Front	IP65
IP (at the front)	IP65
Rear	IP20

IP (rear)	IP20
Certifications & standards	
Certifications	CE, GL, BV, DNV, LRS, PRS, FM Class I Div. 2, UL, CSA, cULus, EX zone 2/22
I/O / Options	
I/O devices	Printer
Type of output	
Info LED	Yes
Power LED	No
Error LED	No
LED colors	Green
Interfaces	
Interfaces	1 x RS232, 1 x RS422, 1 x RS485 (max. 1.5 Mbit/s)
Number of interfaces/parallel	1
Number of interfaces/according to RS 485	1
Transmission rate, max.	1.5 Mbit/s
PC card slot	No
CF card slot	No
USB	No
Ethernet	No
Special interfaces	No
Operating systems	
Operating system	RMOS
Product function	
Message indicator	Yes
Message system	No
Process value display (output)	No
Process value default (input)	No
Recipe administration	No
Customer-specific configuration	No
Additional software components loadable	No
other	
free hotline	Yes
Warranty period	1 a
Processor	

Processor	X86
Processor type	X86
Drives	
Design of drive/storage medium, CD-ROM	No
Design of drive/storage medium, diskette	Yes
Design of drive/storage medium, hard disk	No
Functionality under ProTool	
Alarm clock	No
Clean screen	No
Number of levels for password protection	10
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	499
Memory requirement for first unit	116 byte
Memory requirement for each additional unit	10 byte
Number of fault messages	499
Memory requirement for first unit	116 byte
Memory requirement for each additional unit	10 byte
System messages	Yes
Message length (lines x characters)	4 x 20
Number of process values in messages	8
Number of acknowledgement groups	4
Message indicator	Yes
Acoustic feedback	No
First/last value	Yes
Message buffer	Message buffer (n x 256 entries)
Recipes	
Number of recipes	99

Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of data records per recipe	99
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Number of entries per data record	99
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Recipe memory	4 KB integrated Flash
Number of process images	
Number of process images	99
Memory requirement for first unit	19132 byte
Memory requirement for each additional unit	104 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	No
Image elements	
Text objects	31,680 text elements
Number of fields per screen	99
Number of variables per screen	792
Permanent window/default	N
Image selection via PLC	Yes
Index of screen context	Yes
Start screen configurable	Yes
Image number in the PLC	Yes
Return	Yes
Graphics object	Semigraphic
Number of icons	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Number of screen filling icons	0
Memory requirement for first unit	0 byte

Memory requirement for each additional unit	0 byte
Number of objects per project	0
Number per image	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Number of curves per diagram	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Write direction	horizontal
Online operation of trends	Not possible
trigger	None
Limit value lines	No
Number of bars per chart	0
Direction	No
Limit value lines	No
Number of alphanumerical fields	196020
Number of alphanumerical fields per screen	1980
Memory requirement for first unit	129 byte
Memory requirement for each additional unit	84 byte
Number of numerical fields	196020
Number of numerical fields per screen	1980
Memory requirement for first unit	129 byte
Memory requirement for each additional unit	84 byte
Number of date and time fields	198
Memory requirement for first unit	129 byte
Memory requirement for each additional unit	84 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	0 byte
Memory requirement for each additional unit	0 byte
Number of invisible switches per screen	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 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	0
Number of indicator lights per screen	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Attributes for dynamic objects	
Color change	No
X/Y movement	No
Hide	Yes
Angle of turn	No
Lists	
Number of text lists per project	0
Number of text lists per image	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Number of entries per project	0
Memory requirement for first unit	0 byte

Memory requirement for each additional unit	0 byte
Number of graphics lists per project, max.	0
Number of graphic lists per image, max.	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Number of entries per project	0
Memory requirement for first unit	0 byte
Memory requirement for each additional unit	0 byte
Libraries	No
Recording	
Recording/Printing	Alarms, 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	17
Memory requirement for first unit	7312 byte
Memory requirement for each additional unit	7950 byte
Configuration languages	D, GB, F, I, E, DK, FIN, GR, NL, N, PL, P, RUS, S, CZ / SK, TR, h
Transfer (upload/download)	
Transfer of configuration	serial
Process coupling	
Connection to controller	S5, S7-200, S7- 300/400, Win AC, SINUMERIK see section on "System interfaces"
S5	Yes
serial	No
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	No
Point-to-point	No
Network	No
Allen Bradley (DF1)	No
Point-to-point	No
Network	No
Allen Bradley (DH485)	No
Point-to-point	No
Network	No
Mitsubishi (FX)	No
Point-to-point	No
Network	No
Telemecanique (ADJUST)	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
Functions	
Key repeat	No
TAB sequence	No
Calculating functions	Yes
Animate	No
Menu tree editor	No
Unit switchover	No
Booting via external memory	No
Service tools/configuration aids	
Touch calibration	No
Backup/restore	Yes

Simulation	No
Language tool	Yes
System messages Edit	Yes
Device switchover	No
Delta transfer	No
Monitoring the battery, memory,...	No
Trace (operation archive)	No
Mechanics	
Type of housing (front)	Plastic
Mounting technology	Clamp terminals
Dimensions	
Front of enclosure (W x H)	144 mm x 180 mm
Mounting cutout/Device depth (W x H/D) in mm	135 mm x 171 mm / 38,5 mm device depth
Dimensions and weight	
Weight	
Weight	0.43 kg
Status	Mar 12, 2010