SIEMENS

SIPLUS HMI OP277 6" FOR MEDIALE STRESS BASED ON
6AV6643-0BA01-1AX0

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General information	
customer-specific configuration	Yes
Display	
Design of display	TFT
Screen diagonal	5.7 in
Size	5.7"
Display type	TFT, 256 colors
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 60,000 hours
Control elements	
Control elements	Membrane keyboard
Operating options	Keys
Function keys, programmable	24 function keys, 18 with LEDs
Connection for mouse/keyboard/barcode reader	USB / USB / USB

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Keyboard fonts	
Keys with LED	Yes
user-definable label membrane keys	Yes
Number of function keys with LEDs	18
Multi-key operation	Yes
Number of multi-key operations	2
Numeric/alphabetical input	Yes / Yes (only English font can be displayed, only onscreen)

Supply voltage	
Type of supply voltage	DC

Processor	
Processor	RISC 32-bit
Processor type	RISC 32-bit

Memory	
Type	Flash / RAM
usable memory for user data	4 MB usable memory for user data
Main memory	
Capacity of main memory, maximum	64 Mbyte

Time of day	
Clock	
Type	Software clock, synchronizable, no battery backup
Software clock	Yes
battery-backed	No
synchronizable	Yes

Interfaces	
Interfaces	1 x RS422, 1 x RS485, 1 x Ethernet (RJ45)
Number of RS 485 interfaces	1
USB port	1 x USB
Multimedia Card slot	1x MultiMediaCard slot
Industrial Ethernet	
Industrial Ethernet interface	1 x Ethernet (RJ45)

Degree and class of protection	
Front	IP65
IP (at the front)	IP65
Rear	IP20
IP (rear)	IP20

Standards, approvals, certificates	
Certifications	CE
Suitable for safety functions	No

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Ambient conditions	
Mounting position	vertical
Operating temperature	
Operation	0 °C to +50 °C
Storage/transport temperature	
Transport, storage	-20 °C to +60 °C
Extended ambient conditions	
relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity	
with condensation, maximum	100 % ; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
Resistance	
to biologically active substances/conformity with EN 60721-3-3	Yes ; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
to chemically active substances/conformity with EN 60721-3-3	Yes ; Class 3C4 incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
to mechanically active substances/conformity with EN 60721-3-3	Yes ; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Operating systems	
Operating system	Windows CE
Configuration	
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
Configuration software	
Configuration tool	WinCC flexible Standard Version 2005 SP1 or higher (to be ordered separately)
2. Configuration kit	WinCC flexible Standard
Version	Version 2005 SP 1
Configuration tool	WinCC flexible
Type	Standard
Languages	
Online languages	
Number of online/runtime languages	16
Project languages	

Languages per project	32

Functionality under WinCC (TIA Portal)

Libraries	Yes
Task planner	Yes
Help system	Yes
Number of characters per info text	80

Message system

Number of alarm classes	32
Number of messages	4000
Bit messages	Yes
Analog messages	Yes
Number of bit messages	4000
Number of analog messages	4000
System messages HMI	Yes
System messages PLC	Yes
System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	Yes
Message length (in characters)	80
Lines	1
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
First/last value	Yes

Recipe administration

Number of recipes	300
Data records per recipe	500
Entries per data record	1000
Recipe memory	64 KB integrated Flash, expandable

Variables

Number of variables per device	2048
Number of variables per screen	200
Number of variables	1000
Initial values	2048
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Type Date & Time	2048

Images

Number of configurable images	500

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Permanent window/default	Yes
Start screen configurable	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
Text objects	10,000 text elements
I/O fields per image	200
Date/time fields	200
Return	Yes
Graphics object	Bit maps, icons, vector graphics
Icons	1000
Complex image objects	
Status/control	With SIMATIC S7
dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
Number of objects per project	1000
Number of curve diagrams per image	10
Methods	Trend / profile
Limit value lines	Yes
Number of bars per chart	10
Limit value lines	Yes
alphanumeric fields	300
alphanumeric fields per image	200
numerical fields	2048
numerical fields per image	200
Password fields	2048
Number of slides per image	10
Number of analog indicators per image	10
Number of visible switches per project	200
visible switches per image	200
hidden switches per image	200
Number of status switches per project	200
Button status switches per image	200
Number of selector switches per project	200
Selector switches per image	200
Number of decade switches per project	200
Decade switches per image	200
Number of signal lamps per project	200
Signal lamps per image	200
Attributes for dynamic objects	

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Color change	Yes
X/Y movement	Yes
Hide	Yes
Lists	
Number of text lists per project	500
Number of text lists per image	200
Number of entries per text list	256
Number of graphics lists per project	400
Number of graphic lists per image	200
Number of entries per graphics list	256
Archiving	
Number of archives per device	20
Number of measuring points per project	20
Number of entries per archive	10000
Message archive	Yes
Process value archive	Yes
Archiving methods	
Sequential archive	Yes
Short-term archive	Yes
Memory location	MultiMediaCard
Ethernet	Yes
Data storage format	
CSV	Yes
Online evaluation	
using trend curves	Yes
Filters	
cyclic	Yes
Tolerance	Yes
Change	Yes
Security	
Number of user groups	50
Number of user rights	32
Password export/import	Yes
Logging through printer	
Recording/Printing	Alarms, report (shift report), color print, hardcopy
Transfer (upload/download)	
Transfer of configuration	MPI/PROFIBUS DP, USB, Ethernet, automatic transfer recognition
Process coupling	

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Connection to controller	S5, S7-200, S7-300/400, TI 505, SINUMERIK, SIMOTION, Allen Bradley (DF1), Allen Bradley (DF485), Mitsubishi (FX), OMRON (LINK/Multilink), Modicon (Modbus) see chapter "System interfaces"
S7-200	Yes
PPI (point-to-point)	Yes
PPI network	Yes
MPI	Yes
PROFIBUS DP	Yes
Ethernet	Yes
S7-300/400	Yes
MPI	Yes
PROFIBUS DP	Yes
PROFINET	Yes
S5	Yes
serial	Yes
PROFIBUS DP	Yes
TI 505	Yes
Allen Bradley (DF1)	Yes
Allen Bradley (DF485)	Yes
Mitsubishi (FX)	Yes
Mitsubishi (MP4)	Yes
OMRON (LINK/Multilink)	Yes
Modicon (Modbus)	Yes
GE-Fanuc (SNP)	Yes
Functions	
TAB sequence	Yes
Calculating functions	Yes
Animate	Yes
Service tools/configuration aids	
Backup/Restore manually	Yes
Simulation	Yes
Device switchover	Yes
Delta transfer	Yes
Expandability/openness	
Open Platform Program	Yes
Peripherals/Options	
Peripherals	Printer, barcode reader
Multimedia Card	Yes
Additional software components loadable	Yes

Dimensions	
Front of enclosure (W x H)	308 mm x 204 mm
Weights	
Weight (without packaging)	1.19 kg
Other	
free hotline	Yes
Warranty period	1 a
Status	Jul 30, 2014

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