

Spare part SIPLUS HMI OP 73 for medial exposure with conformal coating based on 6AV6641-0AA11-0AX0 . "3" LC== display, graphics-capable," backlit, MPI-/PROFIBUS DP interface, to 1.5 MB, configurable from WinCC flexible 2004 Compact HSP contains open source software which is provided free of charge. See enclosed CD-ROM

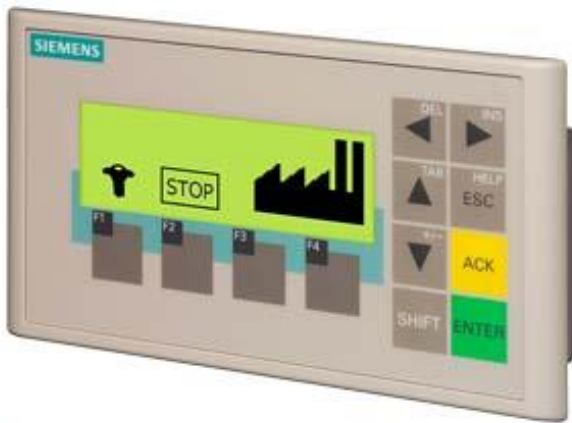


Figure similar

General information	
Customer-specific configuration	No
Display	
Design of display	STN
Screen diagonal	3 in
Color display	No
Number of colors	2; Black/white
Resolution (pixels)	
• Horizontal image resolution	160 Pixel
• Vertical image resolution	48 Pixel
Backlighting	
• MTBF backlighting (at 25 °C)	100 000 h
Control elements	
Control elements	Membrane keyboard
Keyboard fonts	
• Membrane keyboard	

— user-definable label membrane keys	No
• Function keys	
— Number of function keys	4
— Number of function keys with LEDs	0
• System keys	Yes
— Number of system keys	8
• alphanumeric keyboard	Yes
• hexadecimal keyboard	Yes
• Multi-key operation	Yes
Touch operation	
• Design as touch screen	No
Connection type	
• Type of connection for mouse/keyboard/barcode reader	- / - / -
Installation type/mounting	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	80°
Supply voltage	
Type of supply voltage	DC
Input current	
Current consumption (rated value)	0.1 A
Starting current inrush I ² t	0.5 A ² ·s
Processor	
Processor type	ARM
Memory	
Type of memory	Flash
Memory available for user data	256 kbyte
Time of day	
Clock	
• Type	Software clock, no battery backup
• retentive	No
• synchronizable	No
Interfaces	
Interfaces/bus type	1 x RS485 (max. 1.5 Mbit/s)
Number of RS 485 interfaces	1
• Transmission rate, max.	1.5 Mbit/s
Number of USB interfaces	0
Protocols	

Supports protocol for PROFINET IO	No
PROFIsafe	No
PROFIBUS	Yes
Protocols (Ethernet)	
• TCP/IP	No
Further protocols	
• EtherNet/IP	No
• MODBUS	No
• other bus systems	Yes
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
KC approval	Yes
EAC (formerly Gost-R)	Yes
Suitable for safety functions	No
Use in hazardous areas	
• ATEX Zone 2	No
• ATEX Zone 22	No
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Altitude during operation relating to sea level	
• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
Relative humidity	
• Operation, max.	100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state)
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state)
Resistance	
Use in stationary industrial systems	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!

— to mechanically active substances according to EN 60721-3-3

Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

Operating systems

pre-installed operating system	LINUX
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Configuration

Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	No

Configuration software

- | | |
|--|--|
| <ul style="list-style-type: none"> • Configuration tool | WinCC flexible Compact Version 2004 SP 1 or higher; HSP OP 73 (to be ordered separately) |
|--|--|

Languages

Online languages

- | | |
|--|---|
| <ul style="list-style-type: none"> • Number of online/runtime languages | 5 |
|--|---|

Project languages

- | | |
|---|----|
| <ul style="list-style-type: none"> • Languages per project | 32 |
|---|----|

Functionality under WinCC (TIA Portal)

Libraries	Yes
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Task planner	Yes
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Help system	Yes
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- | | |
|--|-----|
| <ul style="list-style-type: none"> • Number of characters per info text | 320 |
| <ul style="list-style-type: none"> • Number of tooltips | 0 |

Message system

- | | |
|--|-----|
| <ul style="list-style-type: none"> • Number of alarm classes | 32 |
| <ul style="list-style-type: none"> • Number of messages | 500 |
| <ul style="list-style-type: none"> • Bit messages | Yes |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> — Number of bit messages | 500 |
| <ul style="list-style-type: none"> • Analog messages | Yes |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> — Number of analog messages | 0 |
| <ul style="list-style-type: none"> • Telegram message procedure Alarm S | No |
| <ul style="list-style-type: none"> • System messages HMI | Yes |
| <ul style="list-style-type: none"> • System messages PLC | Yes |
| <ul style="list-style-type: none"> • System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.) | No |
| <ul style="list-style-type: none"> • Number of characters per message | 80 |
| <ul style="list-style-type: none"> • Number of process values per message | 8 |
| <ul style="list-style-type: none"> • Acknowledgment groups | |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> — Number of acknowledgement groups | Yes |
| <ul style="list-style-type: none"> • Message indicator | No |

• acoustic feedback	No
• First/last value	Yes
Variables	
• Number of variables per device	1 000
• Number of variables per screen	20
• Limit values	Yes
• Multiplexing	Yes
• Structures	No
Images	
• Number of configurable images	500
• Permanent window/default	Yes
• Start screen configurable	Yes
• Image selection by PLC	Yes
• Image number in the PLC	Yes
Image objects	
• Text objects	1,000 text elements
• Number of I/O fields per image	20
• Index of screen context	No
• Return	Yes
• Graphics object	Bit maps, icons, icon (full-screen)
— Icons	1
— Icon (full screen)	1
Complex image objects	
• Status/control	Not possible
• dynamic objects	Bar graphs
• Bar graphs	
— Number of bars per chart	5
• Limit value lines	Yes
Attributes for dynamic objects	
• Color change	No
• X/Y movement	No
• Hide	Yes
• Angle of rotation	No
Lists	
• Number of text lists per project	150
• Number of graphics lists per project	0
Security	
• Number of user groups	50
• Number of user rights	32
• Password export/import	Yes
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
• S7-300/400	Yes
— MPI	Yes
— PROFIBUS DP	Yes
— PROFINET	No
• S5	No
— serial	No
— PROFIBUS DP	No
• TI 505	No
• Allen Bradley (DF1)	No
• Allen Bradley (DF485)	No
• Mitsubishi (FX)	No
• Mitsubishi (MP4)	No
• Telemecanique (ADJUST)	No
• Telemecanique (Uni-Telway)	No
• OMRON (LINK/Multilink)	No
• Modicon (Modbus)	No
• GE-Fanuc (SNP)	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 manually	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
Peripherals/Options	
Additional software components loadable	Yes
Dimensions	
Width of the housing front	154 mm
Height of housing front	84 mm
Overall depth	28.5 mm
Weights	
Weight (without packaging)	0.25 kg
Other	
free hotline	Yes
Warranty period	1 y
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